Extreme Network OS NETCONF Operations Guide, 7.1.0

Supporting Network OS 7.1.0

53-1004582-02
21 November 2016

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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.
	Identifies text to enter in the GUI.
italic text	Identifies emphasis.
	Identifies variables.
	Identifies document titles.
`Courier font`	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.
italic text	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, *member*[*member*...].
\	Indicates a "soft" line break in command examples. If a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash.

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

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What's new in this document

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.

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 2741
- 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.

Using the Network OS CLI

For complete instructions and support for using the Network OS version 7.1.0 command line interface (CLI), refer to the *Network OS Command Reference*.

NETCONF Overview

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NETCONF and YANG

Extreme Network OS provides support for the Network Configuration Protocol (NETCONF) and the YANG data modeling language. Using Extensible Markup Language (XML) constructs, the NETCONF protocol provides the ability to manipulate configuration data and view state data modeled in YANG. NETCONF uses a client/server architecture in which remote procedure calls (RPCs) manipulate the modeled data across a secure transport, such as Secure Shell version 2 (SSHv2).

NETCONF provides mechanisms through which you can perform the following operations:

- Manage network devices
- Retrieve configuration data and operational state data
- Upload and manipulate configurations

NETCONF is partitioned conceptually into four layers, as shown in

NETCONF in client/server architecture

The NETCONF protocol uses RPCs to facilitate communication between the client (NETCONF Manager or application) and the server (NETCONF Agent or managed device).

A client encodes an RPC request in XML and sends it to a server using a secure, connection-oriented session. The server responds with a reply encoded in XML, as shown in

The communication between the client and server consists of a series of alternating request and reply messages. The NETCONF peers use <rpc> and <rpc-reply> elements to provide transport protocol-independent framing of NETCONF requests and responses. The NETCONF server processes the RPC requests sequentially in the order in which they are received.

RPC request

The <rpc> element is used for enclosing a NETCONF request sent from the client to the server.

Every <rpc> element contains a mandatory attribute, the message-id. This attribute has a unique value for every RPC request, and is used to associate every RPC request with the corresponding response. The message-id value is a monotonically increasing integer string. The maximum length of the string is 4095 characters. If the message-id is not present in the RPC request, the server rejects the request by returning an <rpc-error> with an <error-tag> element set to “missing-attribute”.

If there are any additional attributes present in the RPC request, the NETCONF server returns them unmodified in the corresponding RPC reply.

RPC reply

An <rpc-reply> element is sent in response to every RPC request.

The <rpc-reply> element contains the mandatory attribute message-id copied from the corresponding RPC request, along with any additional attributes that are present in the RPC request.

For successfully processed <get> or <get-config> requests, the response data is encoded as the content of the <rpc-reply> element.

For successfully processed <edit-config> or <close-session> requests, the <ok> element is encoded as the content of the <rpc-reply> element.

For unsuccessful RPC requests, one or more <rpc-error> elements are encoded inside the <rpc-reply> element.

RPC and error handling

If the RPC request fails, an <rpc-error> element is encoded inside the <rpc-reply> element and sent to the client.

The <rpc-error> element indicates the first detected error. The server is not required to detect or report multiple errors. If the server detects multiple errors then the order of the error detection and reporting is at the discretion of the server.

Partial success behavior in logical chassis

NETCONF clients should explicitly handle an <rpc-error> in logical chassis mode as shown in the following example. NETCONF clients consider it as a warning, but do not stop operation. The database is committed with the new configuration. The following example is a sample of an <rpc-reply> that is partially successful.

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
message-id="2">
    <rpc-error>
        <error-type>application</error-type>
        <error-tag>operation-failed</error-tag>
        <error-severity>error</error-severity>
        <error-message unknown:lang="en">FRAMEWORK_CLUSTER_PARTIAL_SUCCESS | Warning: Operation context "/
qos:nas/server-ip[server-ip="10.0.0.0/24"]/vrf[vrf-name="Testing_Vrf"]".
Cluster wide operation failed on Rbridge-id(s): 6. Succeeded on Rbridge-id(s): 1. Rbridge-id(s): 6 Reason:
%Error: Command is not supported on this platform.</error-message>
    </rpc-error>
</rpc-reply>
```

SSH subsystem

The NETCONF client must use Secure Shell Version 2 (SSHv2) as the network transport to connect to the NETCONF server. Only the SSHv2 protocol is supported as the NETCONF transport protocol.

To run NETCONF over SSHv2, the client establishes an SSH transport connection using the SSH transport protocol to the NETCONF port. The default NETCONF port is 830. The underlying SSH client and server exchange keys for message integrity and encryption.

The SSHv2 client invokes the ssh-userauth service to authenticate the user. All currently supported SSH user authentication methods such as the public-key, password, and keyboard-interactive authentications are supported for a NETCONF session also. If the SSH user authentication is disabled, the user is allowed full access.

On successful user authentication, the client invokes the ssh-connection service, also known as the SSH connection protocol. After the SSH session is established, the NETCONF client invokes NETCONF as an SSH subsystem called netconf.

RFC references

For details about NETCONF and YANG as defined by the Internet Engineering Task Force (IETF), refer to the following documents:

- RFC 6241, "NETCONF Configuration Protocol."
- RFC 4742 "Using the NETCONF Configuration Protocol over Secure Shell (SSH)."
- RFC 6020, "YANG - A Data Modeling Language for the Network Configuration Protocol (NETCONF)"
- RFC 6021, "Common YANG Data Types"

NETCONF support in Network OS

This section describes the support in Network OS for NETCONF features.

describes the degree of support in Network OS for each NETCONF RPC. For details of the RPCs listed in Table 1, refer to RFC 4741.

TABLE 1 NETCONF RPCs supported in Network OS

RPC	Function	Support in Network OS
<copy-config>	Copies the startup configuration to the running configuration, copies the running configuration to the startup configuration, copies the startup or running configuration to a remote file, or copies the remote file to the startup or running configuration.	Use <bna-config-cmd> custom RPC instead.
<close-session>	Terminates the current NETCONF session gracefully.	Supported
<delete-config>	Deletes a configuration datastore.	Supported
<edit-config>	Makes changes to a configuration datastore.	The merge and delete operations are supported. The replace and create operations are not supported. The <running> target is supported. The <candidate> target is not supported. The <error-option> element supports only the stop-on-error value. It does not support the continue-on-error or rollback-on-error values.
<get>	Retrieves running configuration and device state information.	Retrieval of configuration data is supported. Retrieval of operational state data is not supported through the <get> RPC. Operational state data is retrieved using the Extreme Custom RPC and the custom action mechanism. Configuration state data is not modeled in the data models.
<get-config>	Retrieves the entire or partial configuration data.	Supported
<kill-session>	Forces the termination of a NETCONF session.	Supported
<lock>	Locks a configuration datastore.	Not supported

TABLE 1 NETCONF RPCs supported in Network OS (continued)

RPC	Function	Support in Network OS
<unlock>	Unlocks a configuration datastore.	Not supported

To retrieve operational state data, Network OS supports two mechanisms: the Extreme Custom RPCs and the custom action mechanism. Refer to Chapter 2, "Basic NETCONF Operations," for details about Extreme customized RPCs and the custom action mechanism.

Using NETCONF

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Establishing a NETCONF session

Up to 16 concurrent sessions can be established with a NETCONF server. A session times out if it is idle for 30 minutes.

Each NETCONF session begins with a handshake in which the NETCONF server and the client specify the NETCONF capabilities they support. The following sections describe the message exchange on starting a NETCONF session.

Hello messages exchange

After establishing a secure transport connection, both the NETCONF server and client send a <hello> element simultaneously to announce their capabilities and session identifier.

The NETCONF server must include the <session-id> element in the <hello> element. The <session-id> element contains the unique session value for the NETCONF session. If the client receives the <hello> element without the <session-id>, the client aborts the NETCONF session by closing the underlying SSH session.

The NETCONF client must not include the <session-id> element in the <hello> element. If the server receives the <hello> element with the <session-id>, the server aborts the NETCONF session by closing the underlying SSH session.

The NETCONF client must include a valid xmlns attribute in the <hello> element. If the server receives the <hello> element without a valid xmlns attribute, the server aborts the NETCONF session by closing the underlying SSH session.

The NETCONF client must include a base capability. The server receiving the <hello> element without a NETCONF base capability aborts the NETCONF session by closing the underlying SSH session.

The server receiving an <rpc> element without first receiving a <hello> element aborts the NETCONF session by closing the underlying SSH session.

The following example shows a <hello> element from the NETCONF server.

```
<hello xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <capabilities>
        <capability>urn:ietf:params:netconf:base:1.0</capability>
        <capability>urn:ietf:params:netconf:capability:writable-running:1.0    </capability>
        <capability>urn:ietf:params:netconf:capability:startup:1.0</capability>
        <capability>urn:ietf:params:netconf:capability:xpath:1.0</capability>
        <capability>urn:ietf:params:netconf:capability:validate:1.0</capability>
        <capability>http://tail-f.com/ns/netconf/actions/1.0</capability>
        <capability>http://tail-f.com/ns/aaa/1.1?revision=2010-06-17&module=tailfaaa</capability>
        <capability>urn:brocade.com:mgmt:brocade-aaa?revision=2010-10-21&module=brocade-aaa</capability>
        <capability>urn:brocade.com:mgmt:brocade-aaa-ext?revision=2010-09-21&module=brocade-aaa-ext</
capability>
        <capability>urn:brocade.com:mgmt:brocade-cdp?revision=2010-08-17&module=brocade-cdp</capability>
        <capability>urn:brocade.com:mgmt:brocade-cee-map?revision=2011-04-18&module=brocade-cee-map</
capability>
        <capability>urn:brocade.com:mgmt:brocade-chassis?revision=2011-04-11&module=brocade-chassis</
capability>
```

```
        </capabilities>
        (output truncated)
        <session-id>4</session-id>
    </hello>
```

Server capabilities

A NETCONF capability is a set of protocol extensions that supplements the base NETCONF specification.

A NETCONF capability is identified with a Uniform Resource Identifier (URI). Capabilities augment the base operations of the NETCONF server, describing both the additional operations and the contents allowed inside the operations. To support a capability, the NETCONF server must support all the dependent capabilities.

The following capabilities are supported on Network OS switches:

- Base capability—The set of operations and contents that any NETCONF implementation must support. The URI for the base capability is urn:ietf:param:xml:ns:netconf:base:1.0. Both the NETCONF client and server must support the base capability.
- Writable-running capability—Indicates that the device supports <edit-config> and <copy-config> operations where the <running> configuration is the target. The URI is urn:ietf:params:netconf:capability:writable-running:1.0.
- Startup capability—Supports separate datastores for the running and startup configuration. Operations performed on the running-config datastore do not affect the startup configuration until a <copy-config> operation is performed to explicitly copy the running configuration to the startup configuration. The URI for the startup capability is urn:ietf:params:netconf:capability:startup:1.0.
- Xpath capability—Supports XPath expressions in <filter> elements. <filter> elements are used in <get> and <get-config> operations to limit the scope of the retrieved data. The URI for the xpath capability is urn:ietf:params:netconf:capability:xpath:1.0.
- Validate capability—Allows validation to be performed on a configuration. The URI for the validate capability is urn:ietf:params:netconf:capability:validate:1.0.
- Actions capability—Allows operations to be performed on the datastore using the custom action mechanism for features that are supported by this mechanism in the YANG code. Refer to “Using the custom action mechanism” on page 17 for details. The URI for the actions capability is http://tail-f.com/ns/netconf/actions/1.0.
- tailf-aaa capability—Supports proprietary authentication, authorization, and accounting (AAA). The URI for the tailf-aaa capability is http://tail-f.com/ns/aaa/1.1?revision=2010-06-17&module=tailf-aaa.
- Extreme proprietary capabilities—A set of capabilities that support Extreme Network OS features. Each capability references a namespace containing instance data. Each namespace corresponds to a file containing the YANG module that models the data. For example the Extreme-cee-map capability at URI urn:Extreme.com:mgmt:Extreme-cee-map?revision=2011-04-18&module=Extreme-cee-map provides support for the features modeled in the Extreme-cee-map module.

For an overview of each YANG module and structural details, refer to the Network OS YANG Reference Manual. For element definitions, refer to the YANG file itself.

NOTE

The Candidate Configuration capability and Confirmed Commit capability are not supported.

Client capabilities

The client must support the base capability.

In addition, Extreme recommends that the client specify the identification capability with URI http://tail-f.com/ns/netconf/identification/1.0 while establishing a session with the server. This capability provides client information to the server, including the vendor, product name, and version of the client application in addition to user information. Server administrators can subsequently gather information about who is accessing the server using the show netconf client-capabilities command or the <get-netconf-client-capabilities>custom RPC. Refer to Appendix A, "Managing NETCONF," for details.

The following example shows a <hello> element from the NETCONF client.

```
<hello xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <capabilities>
        <capability>urn:ietf:params:netconf:base:1.0</capability>
        <capability>http://tail-f.com/ns/netconf/identification/1.0?
vendor=Extreme&amp;product=bna&amp;version=3.0&amp;client-identity=adminUser</capability>
    </capabilities>
</hello>
```

Retrieving configuration data

You can retrieve configuration data using either the <get-config> or <get> RPC. RFC 4741, NETCONF Configuration Protocol specifies that the <get-config> RPC returns only configuration data while the <get> RPC returns configuration data and operational state data.

In the Extreme implementation, the <get> RPC does not return operational state data; Extreme instead provides a set of Custom RPCs and actions for returning operational state data. In the Extreme implementation, the <get-config> and <get> operations are essentially the same. This document will typically refer to the <get-config> operation, though <get> can be used equally.

The following example shows a client message that issues the <get-config> operation in its most basic form. It retrieves the entire running configuration.

```
<?xml version="1.0" encoding="UTF-8"?>
<rpc message-id="200" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <get-config>
            <source>
            <running/>
        </source>
    </get-config>
</rpc>
```

Such a request, however, typically results in an unwanted or unmanageable amount of output. To restrict the output to the portion of the configuration you want, Extreme supports two types of filtering: subtree filtering and xpath filtering.

For complete details about subtree filtering and xpath filtering, refer to the RFC 4741, The NETCONF Protocol. The following sections provide some examples.

Subtree filtering

Subtree filtering defines a point in the configuration hierarchy that limits the returned configuration data.

Only data at this point and the subtrees below it are returned. For example, to retrieve the Fibre Channel configuration for all Fibre Channel interfaces configured on the switch, use the following filter. This operation returns all configuration data for all Fibre Channel ports on the managed device.

```
<?xml version="1.0" encoding="UTF-8"?>
<rpc message-id="201" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <get-config>
        <source>
```

```
            <running/>
        </source>
        <filter type="subtree">
            <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
                <fc-port/>
            </interface>
        </filter>
    </get-config>
</rpc>
```

The purpose of each filter element is as follows:

- The <filter> element tag contains a type statement that identifies the filter type as a subtree filter.
- The <interface> element constrains the output to the interface configuration in the urn:brocade.com:mgmt:brocade-interface namespace.
- The <fc-port> element further constrains the output to the information under the <fc-port> node. Used in this way, <fc-port> is termed a containment node.

To further restrict the output and retrieve Fibre Channel configuration data for only one specific Fibre Channel interface, use the following filter. In this example, the <name> element is termed a content match node; the filter returns the values of all Fibre Channel attributes for the specified port.

```
<?xml version="1.0" encoding="UTF-8"?>
<rpc message-id="202" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <get-config>
        <source>
            <running/>
        </source>
        <filter type="subtree">
            <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
                <fc-port>
                    <name>8/0/1</name>
                </fc-port>
            </interface>
        </filter>
    </get-config>
</rpc>
```

If all you want to know is the setting of one specific Fibre Channel port attribute, such as the configured speed, use a filter such as the following. In this case, <fc-speed-cfg> suppresses the inclusion of all its sibling nodes. It is termed a selection node.

```
<?xml version="1.0" encoding="UTF-8"?>
<rpc message-id="203" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <get-config>
        <source>
            <running/>
        </source>
        <filter type="subtree">
            <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
                <fc-port>
                    <name>8/0/1</name>
                    <fc-speed-cfg/>
                </fc-port>
            </interface>
        </filter>
    </get-config>
</rpc>
```

The following example retrieves the configuration for the Fibre Channel port 1 on routing bridge 8.

```
<?xml version="1.0" encoding="UTF-8"?>
<rpc message-id="204" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <get-config>
        <source>
            <running/>
        </source>
        <filter type="subtree">
```

```
            <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
                <fc-port>
                    <name>8/0/1</name>
                </fc-port>
            </interface>
        </filter>
    </get-config>
</rpc>


<rpc-reply message-id="204" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <fc-port>
            <name>8/0/1</name>
            <ifindex>1</ifindex>
            <fc-speed-cfg>8gbps</fc-speed-cfg>
            <long-distance>ld</long-distance>
            <vc-link-init>arb</vc-link-init>
            <desire-distance>0</desire-distance>
            <trunk-enable></trunk-enable>
        </fc-port>
    </interface>
</rpc-reply>
```

xpath filtering

Sometimes the data element that qualifies the information you want is at a lower level in the data hierarchy than the information you need.

For example, if you want to return a list of interfaces that are bound to a CoS-to-CoS mutation QoS map, the element to be used for the selection criteria (<cos-mutation>name</cos-mutation>) resides at a lower level in the hierarchy than the information to be retrieved (the interface name), as shown in the following representation of the QoS map structure. In such cases, you must use an xpath filter and not a subtree filter.

```
| +--rw tengigabitethernet [name]
+--rw name                        interface-type
.
.
.
+--rw qos:qos
+--rw qos:default-cos?            int32
+--rw qos:cos-mutation?            map-name-type
+--rw qos:cos-traffic-class?    map-name-type
+--rw qos:dscp-mutation?        map-name-type
```

The following example returns the interface names to which the CoS-to-CoS mutation QoS map named “test” is bound. In this case, the map named “test” is bound to interfaces 0/59 and 0/60. The <filter> element tag specifies that the filter type is xpath and also specifies the data path and selection criteria.

```
<?xml version="1.0" encoding="UTF-8"?>
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="205">
    <get-config>
        <source>
            <running></running>
        </source>
            <filter type="xpath" select="/interface/tengigabitethernet/qos[cos-mutation='test']"></filter>
    </get-config>
</rpc>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
message-id="205">
    <data>
        <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
            <tengigabitethernet>
                <name>0/59</name>
                <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
```

```
                    <default-cos>0</default-cos>
                    <cos-mutation>test</cos-mutation>
                </qos>
            </tengigabitethernet>
            <tengigabitethernet>
                <name>0/60</name>
                <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
                    <default-cos>0</default-cos>
                    <cos-mutation>test</cos-mutation>
                </qos>
            </tengigabitethernet>
        </interface>
    </data>
</rpc-reply>
```

Retrieving operational data

In the Extreme Network OS implementation of NETCONF, two mechanisms are used for retrieving operational data: Extreme custom RPCs and custom actions.

Custom RPC and action support is added to some of the YANG modules to support the return of specific operational data.

For a complete list of the Extreme Custom RPCs and actions, and their locations, refer to the Network OS YANG Reference Manual.

Extreme Network OS does not support retrieving operational data using the standard <get> RPC.

Using custom RPCs

If an RPC is defined in a YANG module, you can use that RPC to return the associated namespace information defined in its output elements.

For example, to return information about port-profiles to which interfaces are applied, you can use the <get-port-profile-for-intf> RPC defined in the brocade-port-profile-ext.yang file.

The brocade-port-profile-ext.yang file defines the structure of the <get-port-profile-for-intf> RPC as follows:

```
+---x get-port-profile-for-intf
    +--ro input
        +--ro interface-type? enumeration
        +--ro interface-name? union
    +--ro output
        +--ro interface
        +--ro interface-type? enumeration
        +--ro interface-name? union
        +--ro port-profile
            +--ro name? common-def:name-string64
```

The following example shows the <rpc> message and reply. The <get-port-profile-for-intf> element contains an xmlns attribute that identifies the corresponding namespace.

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="206">
    <get-port-profile-for-intf xmlns="urn:brocade.com:mgmt:brocade-interface-ext"/>
</rpc>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="206">
    <interface xmlns="urn:brocade.com:mgmt:brocade-port-profile-ext">
        <interface-type>tengigabitethernet</interface-type>
        <interface-name>9/0/53</interface-name>
        <port-profile>
            <name>auto-VM_Network</name>
        </port-profile>
    </interface>
    <interface xmlns="urn:brocade.com:mgmt:brocade-port-profile-ext">
```

```
        <interface-type>tengigabitethernet</interface-type>
        <interface-name>9/0/54</interface-name>
        <port-profile>
            <name>auto-for_iscsi</name>
        </port-profile>
    </interface>
</rpc-reply>
```

Refer to the *Network OS YANG Reference Manual* for a list of Custom RPCs, a brief description of their function, and their location.

Retrieving operational data with pagination

Some RPCs return operational data that consists of lists of entities. For example, an RPC might return detailed information about every interface. For these kinds of applications, to make the output manageable, pagination is supported by providing a <has-more> element in the output of the RPC.

The following example shows how the <has-more> element works to provide pagination for the <get-vlan-brief> RPC. In the input, you can request information about a specific VLAN, or about all VLANs by not providing an input parameter. If you request input about all VLANs, you will first receive information about the VLAN with the lowest VLAN ID. You can then check the <has-more> element in the output to determine whether information is available for additional VLANs. If <has-more> is true, use the value returned in <last-vlan-id> as the <last-rcvd--vlan-id> input parameter to the next call to <get-vlan-brief>. The <get-vlan-brief> RPC then returns the next available VLAN. Continue until <has-more> returns false.

```
+---x get-vlan-brief
    +--ro input
    | +--ro (request-type)?
    | +--:(get-request)
    | | +--ro vlan-id? interface:vlan-type
    | +--:(get-next-request)
    | +--ro last-rcvd-vlan-id? interface:vlan-type
    +--ro output
      +--ro vlan [vlan-id]
    | +--ro vlan-id interface:vlan-type
    | +--ro vlan-type? enumeration
    | +--ro vlan-name? string
    | +--ro vlan-state? enumeration
    | +--ro interface [interface-type interface-name]
    | +--ro interface-type enumeration
    | +--ro interface-name union
    | +--ro tag? enumeration
    +--ro last-vlan-id? interface:vlan-type
    +--ro has-more? boolean
```

The following example uses the <get-interface-brief> RPC to return information about the first VLAN. In this case, the first VLAN is VLAN 20.

```
<rpc message-id="207" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <get-vlan-brief xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
    </get-vlan-brief>
</rpc>

<rpc-reply message-id="207" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <vlan xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
        <vlanid>20</vlanid>
        <vlan-type>static</vlan-type>
        <vlan-name>vlan-20</vlan-name>
        <vlan-state>active</valan-state>
        <interface>
            <interface-type>tengigabitethernet</interface-type>
            <interfce-name>66/0/10</interface-name>
            <tag>tagged</tag>
        </interface>
    </vlan>
    <last-vlan-id>20</last-vlan-id>
```

```
    <has-more>true</has-more>
</rpc-reply>
```

The <has-more> field is true, so use the value returned in <last-vlan-id> as the <last-rcvd-vlan-id> in the next call to <get-vlan-brief> to return information about the next VLAN.

```
<rpc message-id="208" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <get-vlan-brief xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
        <last-rcvd-vlan-id>20</last-rcvd-vlan-id>
    </get-vlan-brief>
</rpc>

<rpc-reply message-id="208" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <vlan xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
        <vlanid>30</vlanid>
        <vlan-type>static</vlan-type>
        <vlan-name>vlan-30</vlan-name>
        <vlan-state>active</valan-state>
        <interface>
            <interface-type>tengigabitethernet</interface-type>
            <interfce-name>66/0/12</interface-name>
            <tag>tagged</tag>
        </interface>
    </vlan>
    <last-vlan-id>30</last-vlan-id>
    <has-more>false</has-more>
</rpc-reply>
```

If the <has-more> field returns false, no more VLAN data can be retrieved.

Using the custom action mechanism

An action is a proprietary mechanism used for implementing operations that do not affect the configuration datastore. Several implementations of actions exist in the Network OS implementation for retrieving operational information.

The following structure is defined in the brocade-zone.yang module for displaying operational data related to zoning.

```
+--rw common-def:show
    +--rw brocade-zone:zoning
        +--action brocade-zone:operation-info
            +--input
            +--output
                +--ro brocade-zone:db-max
                +--ro brocade-zone:db-avail
                +--ro brocade-zone:db-committed
                +--ro brocade-zone:db-transaction
                +--ro brocade-zone:transaction-token
                +--ro brocade-zone:last-zone-changed-timestamp
                +--ro brocade-zone:last-zone-committed-timestamp
```

The following example shows use of the <zoning>/<operation-info> action.

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="209">
    <nca:action xmlns:nca="http://tail-f.com/ns/netconf/actions/1.0">
        <nca:data>
            <show xmlns="urn:brocade.com:mgmt:brocade-common-def">
                <zoning xmlns="urn:brocade.com:mgmt:brocade-zone"/>
            </show>
        </nca:data>
    </nca:action>
</rpc>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
message-id="209">
    <zoning xmlns="urn:brocade.com:mgmt:brocade-zone">
        <db-max>1045274</db-max>
        <db-avail>1043895</db-avail>
```

```
        <db-committed>367</db-committed>
        <db-transaction>373</db-transaction>
        <transaction-token>1</transaction-token>
        <last-zone-changed-timestamp>2011-11-16 16:54:31 GMT-7:00</last-zone-changed-timestamp>
        <last-zone-committed-timestamp>2011-11-16 16:23:44 GMT-7:0</last-zone-committed-timestamp>
    </zoning>
</rpc-reply>
```

For a list of available actions and their locations, refer to the *Network OS YANG Reference Manual*.

Editing the configuration

All configuration editing is done using the merge or delete operations of the <edit-config> RPC. The create and replace operations are not supported.

Refer to RFC 4741, The NETCONF Protocol, for details about these operations.

> NOTE
> Every NETCONF <edit-config> request should have a one-to-one mapping with a Extreme command. You cannot combine two CLI operations into one NETCONF request.

The following example of the default merge operation adds a static address to the MAC address table. The operation is performed on the running configuration and configures the <mac-address-table> node in the urn:extreme.com:mgmt:extrememac-address-table namespace.

```
<?xml version="1.0" encoding="UTF-8"?>
<rpc message-id="210" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <edit-config>
        <target>
            <running/>
        </target>
        <config>
            <mac-address-table xmlns="urn:Extreme.com:mgmt:extrememac-address-table">
                <static>
                    <mac-address>0011.2222.3333</mac-address>
                    <forward>forward</forward>
                    <interface-type>tengigabitethernet</interface-type>
                    <interface-name>66/0/1</interface-name>
                    <vlan>vlan</vlan>
                    <vlanid>100</vlanid>
                </static>
            </mac-address-table>
        </config>
    </edit-config>
</rpc>

<rpc-reply message-id="210" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <ok/>
</rpc-reply>
```

The delete operation is used to remove or disable part of the configuration. The following example disables MSTP on the managed device.

```
<?xml version="1.0" encoding="UTF-8"?>
<rpc message-id="211" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <edit-config>
        <target>
            <running/>
        </target>
        <config>
            <protocol xmlns="urn:Extreme.com:mgmt:extremeinterface">
                <spanning-tree xmlns="urn:Extreme.com:mgmt:extremexstp">
                    <mstp xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" Operation="delete"/>
                </spanning-tree>
```

```
            </protocol>
        </config>
    </edit-config>
</rpc>

<rpc-reply message-id="211" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <ok/>
</rpc-reply>
```

Managing the configuration

Network OS provides the custom <bna-config-cmd> PRC for performing any of the following operations:

- Copy the *running-config* file to a remote file.
- Copy a remote file to the *running-config* file.

Some simple examples are provided here. Refer to the Network OS Administrator's Guide for the following related information:

- General configuration management concepts
- Details and recommendations about how to apply these operations in a modular chassis or a Extreme VCS Fabric or a IP Fabric
- How to perform management configuration using the Extreme Network OS command line interface (CLI)

To monitor the progress of the copy operation, issue the <bna-config-cmd-status> custom RPC. Provide the session-ID returned by the corresponding <bna-config-cmd> as the input parameter.

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="212">
    <bna-config-cmd-status xmlns="urn:Extreme.com:mgmt:extremeras">
        <session-id>5</session-id>
    </bna-config-cmd-status>
</rpc>

<rpc-reply message-id="212" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <status xmlns="urn:Extreme.com:mgmt:extremeras">completed</status>
</rpc-reply>
```

To archive or back up the *running-config* file, specify <running/> as the <src> parameter, and the URL of the archive as the <dest> parameter. The following example archives the running-config file.

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="212">
    <bna-config-cmd xmlns="urn:Extreme.com:mgmt:extremeras">
        <src>running-config</src>
        <dest>https://user@Extreme.com:passphrase/cfg/archiveMay7.txt</dest>
    </bna-config-cmd>
</rpc>

<rpc-reply message-id="212" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <session-id xmlns="urn:Extreme.com:mgmt:extremeras">6</session-id>
    <status xmlns="urn:Extreme.com:mgmt:extremeras">in-progress</status>
</rpc-reply>
```

To restore an archived configuration, specify the archive URL as the <source> parameter and <running/> as the <target>.

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="212">
    <bna-config-cmd xmlns="urn:Extreme.com:mgmt:extremeras">
        <src>https://user@Extreme.com:passphrase/cfg/archiveMay7.txt</src>
        <dest>running-config</dest>
    </bna-config-cmd>
</rpc>

<rpc-reply message-id="212" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <session-id xmlns="urn:Extreme.com:mgmt:extremeras">6</session-id>
    <status xmlns="urn:Extreme.com:mgmt:extremeras">in-progress</status>
</rpc-reply>
```

Disconnecting from a NETCONF session

To disconnect from a NETCONF session, issue the standard <close-session> RPC.

This operation causes the server to release any resources associated with the session and gracefully close any associated connections.

```
<rpc message-id="215" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <close-session/>
</rpc>

<rpc-reply message-id="215" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <ok/>
</rpc-reply>
```

The <kill-session> RPC is also supported. Issuing <kill-session> aborts all operations and closes the session.

Basic switch management with NETCONF overview

- Connecting to the switch through an SSH session..... 53

This chapter provides procedures for performing some basic switch operations using the NETCONF interface.

Refer to the *Network OS Administrator's Guide* for the following related information:

- Conceptual and overview information
- Using DHCP Automatic Deployment (DAD)
- Procedures for configuring the Ethernet management interface
- Basic switch configuration using the Network OS command line interface (CLI)

Using the NETCONF interface, you can perform the following basic switch configuration operations described in this chapter:

- Use the <edit-config> RPC to set host attributes, configure a line card type on a chassis slot, configure a switch banner, enable or disable first failure data capture (FFDC), and configure logging.
- Use custom actions to enable or disable a chassis, reboot a switch, power on/off a line card, obtain slot and module status, and upload supportSave data.
- Use the <show-raslog> custom RPC to return RASlog messages.

Switch management parameters described in this chapter are defined mostly in the brocade-ras, brocade-linecard-management, and brocade-chassis YANG modules. For structural maps of these YANG modules, refer to the *Network OS YANG Reference Manual*. For definitions and explanations of parameters, refer to the corresponding.yang file.

Connecting to the switch through an SSH session

For NETCONF operations, you musty connect to the switch using SSH.

1. Connect through a serial port to the switch.
2. Verify that the switch's network interface is configured and that it is connected to the IP network through the RJ-45 Ethernet port.
3. Log off the switch's serial port.
4. From a management station, open an SSH connection using the management IP address of the switch to which you want to connect.
5. Enter the account user name at the login prompt.
6. Enter the password.

   Extreme recommends that you change the default account password when you log in for the first time. For more information on changing the default password, refer to the Extreme VDX Hardware Reference Manuals.

7. Verify that the login was successful.

   The prompt displays the host name followed by a pound sign (#).

```
login as: admin
admin@10.20.49.112's password:******
--------------------------------------------------
WARNING: The default password of 'admin' and 'user' accounts have not been changed.

Welcome to the Extreme Network Operating System Software admin connected from 10.110.100.92 using
ssh on VDX6740
```

Sample use cases for Network OS NETCONF

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This chapter discusses common use cases for the Extreme Network OS NETCONF.

NOTE

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

VRF configuration

VRF (Virtual Routing and Forwarding) is a technology that controls information flow within a network by isolating the traffic by partitioning the network into different logical VRF domains.

Every VRF-capable router supports one routing table for each VRF instance. Each VRF-capable router can function as a group of multiple virtual routers on the same physical router. VRF, in conjunction with virtual private network (VPN) solutions, guarantees privacy of information and isolation of traffic within its logical VRF domain.

This chapter provides procedures and examples for configuring VRF using the NETCONF interface.

Using the NETCONF interface, you can perform the following VRF configuration operations:

- Use the *<edit-config>* remote procedure call (RPC) to activate and deactivate VRF globally, set global VRF parameters, activate and deactivate VRF on a port, and to set interface parameters on a specific port.
- Use the <get-config> RPC to verify all or part of the VRF configuration.

VRF parameters are defined in the *brocade-vrf* YANG module. For a structural map of the YANG module, refer to the *Network OS YANG Reference Manual*. For definitions and explanations of all VRF parameters, refer to the *brocade-vrf.yang file*.

Configuring VRF

This chapter provides procedures and examples for configuring VRF using the NETCONF interface.

1. Configure VRF "Red".

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>red</vrf-name>
    </vrf>
</rbridge-id>
```

2. Enable the IPv4 or IPv6 address-family support to configure a variety of VRF unicast routing options.

   The below example shows how to enable IPv4 address-family support

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>Red</vrf-name>
        <address-family>
            <ip>
                <unicast></unicast>
            </ip>
        </address-family>
    </vrf>
</rbridge-id>
```

3. Configure the maximum number of routes to be used for the VRF

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>red</vrf-name>
        <address-family>
            <ip>
                <unicast>
                    <max-route>200</max-route>
                </unicast>
            </ip>
        </address-family>
    </vrf>
</rbridge-id>
```

4. Enable the Open Shortest Path First (OSPF) routing protocol over virtual forward and routing (VRF).

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf”>
            <vrf>red</vrf>
        </ospf>
    </router>
</rbridge-id>
```

5. Assign it to an area

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
            <vrf>red</vrf>
            <area>
                <area-id>0</area-id>
            </area>
        </ospf>
    </router>
</rbridge-id>
```

6. Bind the interface to the VRF instance

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <vrf xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <forwarding>red</forwarding>
            </vrf>
        </ve>
    </interface>
</rbridge-id>
```

STP overview

A network topology of bridges typically contains redundant connections to provide alternate paths in case of link failures. However, because there is no concept of TTL in Ethernet frames, this could result in the permanent circulation of frames if there are loops in the network. To prevent loops, a spanning tree connecting all the bridges is formed in real time.

The redundant ports are put in a blocking (nonforwarding) state. They are enabled when required. In order to build a spanning tree for the bridge topology, the bridges must exchange control frames (BPDUs - Bridge Protocol Data Units). The protocols define the semantics of the BPDUs and the required state machine. The first Spanning Tree Protocol (STP) became part of the IEEE 802.1d standard.

The STP interface states for every Layer 2 interface running STP are as follows:

- *Blocking* - The interface does not forward frames.
- *Listening* - The interface is identified by the spanning tree as one that should participate in frame forwarding. This is a transitional state after the blocking state.
- *Learning* - The interface prepares to participate in frame forwarding.
- *Forwarding* - The interface forwards frames.
- *Disabled* - The interface is not participating in spanning tree because of a shutdown port, no link on the port, or no spanning tree instance running on the port.

A port participating in spanning tree moves through these states:

- From initialization to blocking
- From blocking to listening or to disabled
- From listening to learning or to disabled
- From learning to forwarding, blocking, or disabled
- From forwarding to disabled

Configuring STP

The process for configuring STP is as follows:

1. Enable STP using the below NETCONF statement.

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp”>
        <stp></stp>
    </spanning-tree>
</protocol>
```

2. Designate the root switch by using the bridge-priority command. The range is 0 through 61440 and the priority values can be set only in increments of 4096.

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <stp>
            <bridge-priority>32768</bridge-priority>
        </stp>
    </spanning-tree>
</protocol>
```

3. Enable port fast on switch ports by using the spanning-tree portfast command.

NOTE

Note the following conditions:

- Port fast only needs to be enabled on ports that connect to workstations or PCs. Repeat these commands for every port connected to workstations or PCs. Do not enable port fast on ports that connect to other switches.
- If BPDUs are received on a port fast enabled interface, the interface loses the edge port status unless it receives a shut/no shut.
- Enabling port fast on ports can cause temporary bridging loops, in both trunking and nontrunking mode.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <portfast>
                <portfastbasic></portfastbasic>
            </portfast>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Configuring RSTP

The process for configuring RSTP is as follows.

1. Enable RSTP by using the global **protocol spanning-tree** command.

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rstp></rstp>
    </spanning-tree>
</protocol>
```

2. Designate the root switch by using the **bridge-priority** command. The range is 0 through 61440 and the priority values can be set only in increments of 4096.

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rstp>
            <bridge-priority>32768</bridge-priority>
        </rstp>
    </spanning-tree>
</protocol>
```

3. Configure the bridge forward delay value to set the time an interface spends in each of the listening and learning states.

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rstp>
            <forward-delay>30</forward-delay>
        </rstp>
    </spanning-tree>
</protocol>
```

4. Configure the bridge maximum aging time value to set the interval time in seconds between messages that the spanning tree receives from the interface.

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rstp>
            <max-age>40</max-age>
        </rstp>
    </spanning-tree>
</protocol>
```

5. Enable the error-disable-timeout timer.

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rstp>
            <error-disable-timeout>
                <enable></enable>
            </error-disable-timeout>
        </rstp>
    </spanning-tree>
</protocol>
```

6. Configure the error-disable-timeout interval value to set the timeout for errors on an interface.

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rstp>
            <error-disable-timeout>
                <interval>500</interval>
            </error-disable-timeout>
        </rstp>
    </spanning-tree>
</protocol>
```

NETCONF Commands

aaa/accounting/commands

Enables command accounting.

Usage

```
<aaa-config xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <aaa>
        <accounting>
            <commands>
                <defaultacc>
                    <start-stop>
                        <server-type>none</server-type>
                    </start-stop>
                </defaultacc>
            </commands>
        </accounting>
    </aaa>
</aaa-config>
```

Parameters

server-type

The following server types can be set:

none

Disables accounting

tacacs+

Uses TACACS+ servers

aaa/accounting/exec

Enables login accounting.

Usage

```
<aaa-config xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <aaa>
        <accounting>
            <exec>
                <defaultacc>
                    <start-stop>
                        <server-type>none</server-type>
                    </start-stop>
                </defaultacc>
            </exec>
        </accounting>
    </aaa>
</aaa-config>
```

Parameters

server-type

The following server types can be set:

none

Disables accounting

tacacs+

Uses TACACS+ servers

aaa/authentication

Configures the AAA login sequence.

Usage

```
<aaa-config xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <aaa>
        <authentication>
            <login>
                <first>local</first>
            </login>
        </authentication>
    </aaa>
</aaa-config>
```

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

local-auth-failback

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

local

Specifies the local switch database

radius

Specifies the RADIUS servers

local

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

local-auth-failback

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

tacacs+

Specifies the TACACS+ servers

local

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

local-auth-failback

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

alias-config/alias

Configures the global alias for switch commands.

Usage

```
<alias-config xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <alias>
        <name>alias1</name>
        <expansion>aliasexp1</expansion>
    </alias>
</alias-config>
```

Parameters

name

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

expansion

Specifies the alias expansion. The value can range from 1 through 1023 characters

alias-config/user

Configures the user-level alias for switch commands.

Usage

```
<alias-config xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <user>
        <name>user1</name>
            <alias>
                <name>alias2</name>
                <expansion>aliasexp2</expansion>
            </alias>
    </user>
</alias-config>
```

Parameters

user *name*

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

alias *name*

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

expansion

Specifies the user alias expansion

arp

Creates an address resolution protocol (ARP) access list (ACL), which is one of the steps implementing dynamic ARP inspection (DAI) on a VLAN.

Usage

```
<arp xmlns="urn:brocade.com:mgmt:brocade-dai">
    <access-list>
        <acl-name>acl2</acl-name>
    </access-list>
</arp>
```

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

arp/access-list/{access-list-name}/permit

In an ARP ACL, create a rule that permits ARP messages from a host specified by both IP and MAC addresses, which is one of the steps implementing dynamic ARP inspection (DAI) on a VLAN. You can also specify logging for such a rule.

Usage

```
<arp xmlns="urn:brocade.com:mgmt:brocade-dai">
    <access-list>
        <acl-name>acl2</acl-name>
        <permit>
            <permit-list>
                <ip-type>host</ip-type>
                <host-ip>1.1.1.1</host-ip>
                <mac-type>host</mac-type>
                <host-mac>0011.1122.2233</host-mac>
                <log></log>
            </permit-list>
        </permit>
    </access-list>
</arp>
```

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

host-ip

Specifies the sender IP address

host-mac

Specifies the sender MAC address, in hexadecimal formal

log

Enables logging for this permit rule

banner/incoming

Sets the incoming banner message.

Usage

```
<banner xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <incoming>hello</incoming>
</banner>
```

Parameters

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

banner/login

Sets the switch banner.

Usage

```
<banner xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <login>welcome</login>
</banner>
```

Parameters

login

Specifies the message string to be displayed on the switch console

banner/motd

Sets the message of the day (MOTD) banner.

Usage

```
<banner xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <motd>Welcome to Extreme</motd>
</banner>
```

Parameters

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

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

Sets the bootstrap router (BSR) priority.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
        <rbridge-id>9</rbridge-id>
         <router>
          <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
           <pim>
            <bsr-candidate>
       <bsr-cand-interface>
              <bsr-cand-intf-type>tengigabitethernet</bsr-cand-intf-type>
                  <bsr-cand-intf-id>9/0/25</bsr-cand-intf-id>
                   <hash-mask-length>3</hash-mask-length>
                    <bsr-cand-priority>13</bsr-cand-priority>
             </bsr-cand-interface>
            </bsr-candidate>
           </pim>
          </hide-pim-holder>
         </router>
      </rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID.

bsr-candidate
: Specifies the BSR candidate.

bsr-cand-interface
: Specifies the interface information.

bsr-cand-intf-type
: Specifies the interface type.

bsr-cand-intf-id
: Specifies the interface ID.

hash-mask-length
: Specifies the BSR hash mask length.

bsr-cand-priority
: Specifies the BSR candidate priority.

History

Release version	History
7.1.0	This NETCONF call was introduced.

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

Sets the Protocol-Independent Multicast (PIM) bootstrap router (BSR) message interval timer.

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
            <rbridge-id>9</rbridge-id>
            <router>
               <hide-pim-holder xmlns=""urn:brocade.com:mgmt:brocade-pim"">
                  <pim>
                     <bsr-msg-interval>633</bsr-msg-interval>
                  </pim>
               </hide-pim-holder>
            </router>
         </rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID.

bsr-msg-interval

Specifies the bootstrap message interval value.

History

Release version	History
7.1.0	This NETCONF call was introduced.

cee-map

Enables CEE map.

Usage

```
<cee-map xmlns="urn:brocade.com:mgmt:brocade-cee-map">
    <name>default</name>
</cee-map>
```

Parameters

name

Specifies the CEE map name

cee-map/{cee-map-name}/precedence

Sets the precedence of the CEE map.

Usage

```
<cee-map xmlns="urn:brocade.com:mgmt:brocade-cee-map">
    <name>default</name>
    <precedence>50</precedence>
</cee-map>
```

Parameters

name

Specifies the CEE map name

precedence

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

cee-map/{cee-map-name}/priority-group-table

Configures the bandwidth for each priority group.

Usage

```
<cee-map xmlns="urn:brocade.com:mgmt:brocade-cee-map">
    <name>default</name>
    <priority-group-table>
        <PGID>2</PGID>
        <weight>50</weight>
        <pfc>off</pfc>
    </priority-group-table>
</cee-map>
```

Parameters

name

Specifies the CEE map name

PGID

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

on

Enables PFC

off

Disables PFC

cee-map/{cee-map-name}/priority-table

Configures priority table.

Usage

```
<cee-map xmlns="urn:brocade.com:mgmt:brocade-cee-map">
    <name>default</name>
    <priority-table>
        <map-cos0-pgid>15.2</map-cos0-pgid>
        <map-cos1-pgid>15.5</map-cos1-pgid>
        <map-cos2-pgid>15.3</map-cos2-pgid>
        <map-cos3-pgid>15.2</map-cos3-pgid>
        <map-cos4-pgid>15.1</map-cos4-pgid>
        <map-cos5-pgid>15.3</map-cos5-pgid>
        <map-cos6-pgid>15.5</map-cos6-pgid>
        <map-cos7-pgid>15.0</map-cos7-pgid>
    </priority-table>
</cee-map>
```

Parameters

priority-table

Mapping CoS 0 to 7 to priority group table

cee-map/{cee-map-name}/remap/fabric-priority

Remaps the CoS fabric priority to a different priority for Extreme VCS Fabric mode.

Usage

```
<cee-map xmlns="urn:brocade.com:mgmt:brocade-cee-map">
    <name>default</name>
    <remap>
        <fabric-priority>
            <fabric-remapped-priority>2</fabric-remapped-priority>
        </fabric-priority>
    </remap>
</cee-map>
```

Parameters

fabric-remapped-priority

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

cee-map/{cee-map-name}/remap/lossless-priority

Remaps the Extreme VCS Fabric Fabric lossless priorities to a different priority.

Usage

```
<cee-map xmlns="urn:brocade.com:mgmt:brocade-cee-map">
    <name>default</name>
    <remap>
        <lossless-priority>
            <lossless-remapped-priority>1</lossless-remapped-priority>
        </lossless-priority>
    </remap>
</cee-map>
```

Parameters

lossless-remapped-priority

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

class-map

Configures class map.

Usage

```
<class-map xmlns="urn:brocade.com:mgmt:brocade-policer">
    <name>classmap1</name>
</class-map>
```

Parameters

name

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

class-map/{class-map-name}/match

Configures the access control list to be used with the class map for flow-based QoS.

Usage

```
<class-map xmlns="urn:brocade.com:mgmt:brocade-policer">
    <name>classmap1</name>
    <match>
        <access-group>
            <access-group-name>acl1</access-group-name>
        </access-group>
    </match>
</class-map>
```

Parameters

access-group-name

Specifies any valid Layer 2 or Layer 3 ACL access list name

diag/post/rbridge-id/{rbridge-id}/enable

Enables the power-on self-test (POST).

Usage

```
<nc:rpc xmlns:nc=""urn:ietf:params:xml:ns:netconf:base:1.0""
xmlns=""urn:ietf:params:xml:ns:netconf:base:1.0"" message-id=""2"">
   <nc:edit-config>
      <nc:target>
         <nc:running></nc:running>
      </nc:target>
      <nc:config>
         <post xmlns=""urn:brocade.com:mgmt:brocade-diagnostics"">
            <rbridge-id>5</rbridge-id>
            <enable></enable>
         </post>
      </nc:config>
   </nc:edit-config>
</nc:rpc>
```

Parameters

rbridge-id

Specifies an RBridge ID on which POST is run

enable

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

isns/vrf-forwarding/discovery-domain

Configures the discovery domain parameters.

Usage

```
<isns xmlns="urn:brocade.com:mgmt:brocade-isns">
         <isns-vrf>
            <isns-vrf-instance>1</isns-vrf-instance>
            <isns-ipaddress>0.0.0.0</isns-ipaddress>
            <esi-timeout>170</esi-timeout>
            <isns-discovery-domain-set>
               <isns-discovery-domain-set-name>ddt</isns-discovery-domain-set-name>
               <isns-dds-discovery-domain>test</isns-dds-discovery-domain>
            </isns-discovery-domain-set>
         </isns-vrf>
      </isns>
```

Parameters

isns-vrf-instance

Specifies the VRF forwarding instance ID.

isns-discovery-domain-name

Specifies the discovery domain name.

History

Release version	History
7.1.0	This NETCONF call was introduced.

isns/vrf-forwarding/discovery-domain-set

Configures discovery domain set parameters.

Usage

```
<isns xmlns=""urn:brocade.com:mgmt:brocade-isns"">
   <isns-vrf>
     <isns-vrf-instance>1</isns-vrf-instance>
      <isns-discovery-domain-set>
       <isns-discovery-domain-set-name>wdfr</isns-discovery-domain-set-name>
     </isns-discovery-domain-set>
   </isns-vrf>
</isns>
```

Parameters

isns-vrf-instance

Specifies VRF forwarding instance ID.

isns-discovery-domain-set-name

Specifies the discovery domain set name.

History

Release version	History
7.1.0	This NETCONF call was introduced.

isns/vrf-forwarding/discovery-domain-set/enable

Enables the discovery domain set.

Usage

```
<isns xmlns=""urn:brocade.com:mgmt:brocade-isns"">
 <isns-vrf>
  <isns-vrf-instance>1</isns-vrf-instance>
   <isns-discovery-domain-set>
    <isns-discovery-domain-set-name> DDSET1</isns-discovery-domain-set-name>
     <isns-discovery-domain-set-enable></isns-discovery-domain-set-enable>
    </isns-discovery-domain-set>
   </isns-vrf>
 </isns>
```

Parameters

isns-vrf-instance

Specifies the VRF forwarding instance ID.

isns-discovery-domain-set-name

Specifies the discovery domain set name.

History

Release version	History
7.1.0	This NETCONF call was introduced.

dot1x/enable

Enables 802.1X authentication globally.

Usage

```
<dot1x xmlns="urn:brocade.com:mgmt:brocade-dot1x">
    <enable></enable>
</dot1x>
```

Parameters

enable

Enables global port authentication

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

Enables the MAC-based authentication bypass on an interface.

Usage

```
<interface xmlns=""urn:brocade.com:mgmt:brocade-interface"">
           <tengigabitethernet>
              <name>9/0/25</name>
              <dot1x xmlns=""urn:brocade.com:mgmt:brocade-dot1x"">
                 <mac-auth-bypass></mac-auth-bypass>
              </dot1x>
           </tengigabitethernet>
        </interface>
```

Parameters

name

Specifies the name of the interface.

mac-auth-bypass

Enables the MAC-based authentication bypass.

History

Release version	History
7.1.0	This NETCONF call was introduced.

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

Enables the MAC-based authentication on an interface.

Usage

```
<interface xmlns=""urn:brocade.com:mgmt:brocade-interface"">
            <tengigabitethernet>
               <name>9/0/25</name>
               <dot1x xmlns=""urn:brocade.com:mgmt:brocade-dot1x"">
                  <mac-auth-enable></mac-auth-enable>
               </dot1x>
            </tengigabitethernet>
         </interface>
```

Parameters

name

Specifies the name of the interface.

mac-auth-enable

Enables the MAC-based authentication.

History

Release version	History
7.1.0	This NETCONF call was introduced.

dot1x/test

Configures the 802.1X readiness test timeout.

Usage

```
<dot1x xmlns="urn:brocade.com:mgmt:brocade-dot1x">
    <test>
        <timeout>20</timeout>
    </test>
</dot1x>
```

Parameters

timeout

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

dpod/{dpod-port}/reserve

Manages Dynamic Ports on Demand (POD) assignments.

Usage

```
<dpod xmlns="urn:brocade.com:mgmt:brocade-license">
    <port-id>
        <port-id>1/0/2</port-id>
        <operation>reserve</operation>
    </port-id>
</dpod><dpod xmlns="urn:brocade.com:mgmt:brocade-license">
    <port-id>
        <port-id>1/0/2</port-id>
        <operation>reserve</operation>
    </port-id>
</dpod>
```

Parameters

port-id

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

operation

The following operations are allowed:

release

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

isns/vrf-forwarding/esi-timeout

Configures the Internet Storage Name Services (iSNS) VRF forwarding entity status inquiry (ESI) timeout.

Usage

```
<isns xmlns=""urn:brocade.com:mgmt:brocade-isns"">
        <isns-vrf>
           <isns-vrf-instance>1</isns-vrf-instance>
           <esi-timeout>120</esi-timeout>
        </isns-vrf>
     </isns>
```

Parameters

isns-vrf-instance

Specifies the VRF instance.

esi-timeout

Specifies the timeout value for iSNS ESI.

History

Release version	History
7.1.0	This NETCONF call was introduced.

event-handler

Creates an event-handler profile

Usage

```
<event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler">
    <event-handler-list>
        <name>eventHandler1</name>
    </event-handler-list>
</event-handler>
```

Parameters

name

Specifies the name of the event-handler profile. The value can range from 1 through 32 characters. The first character must be alphabetic

event-handler/{event-handler-name}/action

Creates or accesses an event-handler profile, which can execute a Python script when a specified trigger occurs.

Usage

```
<event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler">
    <event-handler-list>
        <name>eventHandler1</name>
        <action>
            <python-script>example.py</python-script>
        </action>
    </event-handler-list>
</event-handler>
```

Parameters

name

Specifies the name of the event-handler profile. The value can range from 1 through 32 characters. The first character must be alphabetic

python-script

Specifies a Python file that runs when a trigger-condition occurs. The value can range from 4 through 32 characters (including the .py extension). The first character must be alphanumeric

event-handler/{event-handler-name}/description

Defines a description for an event-handler profile.

Usage

```
<event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler">
    <event-handler-list>
        <name>eventHandler1</name>
        <description>sample</description>
    </event-handler-list>
</event-handler>
```

Parameters

name

Specifies the name of the event-handler profile. The value can range from 1 through 32 characters. The first character must be alphabetic

description

Characters describing the event-handler profile. The string can be 1 through 128 ASCII characters in length. Do not use the ? character. If you need to use ! or \, precede each with \

History

Release version	History
7.0.0	This Netconf call was introduced.

event-handler/{event-handler-name}/trigger/{trigger-id}/raslog

Configures a RASlog message ID as the trigger

Usage

```
<event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler">
    <event-handler-list>
        <name>eventHandler2</name>
        <trigger>
            <trigger-id>3</trigger-id>
            <raslog>RAS1</raslog>
        </trigger>
    </event-handler-list>
</event-handler>
```

Parameters

name

Specifies the name of the event-handler profile. The value can range from 1 through 32 characters. The first character must be alphabetic

trigger-id

Specifies a RASlog message ID as the trigger

raslog

Specifies the Raslog ID

event-handler/{event-handler-name}/trigger/{trigger-id}/vcs

Configures a switch event as the trigger.

Usage

```
<event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler">
    <event-handler-list>
        <name>eventHandler1</name>
        <trigger>
            <trigger-id>1</trigger-id>
            <vcs>switch-bootup</vcs>
        </trigger>
    </event-handler-list>
</event-handler>
```

Parameters

name

Specifies the name of the event-handler profile. The value can range from 1 through 32 characters. The first character must be alphabetic

trigger-id

Specifies a switch event as the trigger

vcs

Valid switch-event values are as follows:

switch-bootup

The switch booted and boot-time configuration is applied

switch-ready-for-configuration

The switch is ready to receive a configuration through an event-handler action. This trigger occurs in the following mode:

- Logical Chassis mode—if cluster formation is completed and all cluster nodes are online

fabric

Configures the multicast priority for the local RBridge in the fabric.

Usage

```
<fabric xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
    <route>
        <mcast>
            <rbridge-id>
                <rbridge-id>1</rbridge-id>
                <priority>4</priority>
            </rbridge-id>
        </mcast>
    </route>
</fabric>
```

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.

fcoe/fabric-map

Enables FCoE fabric-map configuration mode and associated options for a default fabric map or a specified fabric map.

Usage

```
<fcoe xmlns="urn:brocade.com:mgmt:brocade-fcoe">
    <fcoe-fabric-map>
        <fcoe-fabric-map-name>SanA</fcoe-fabric-map-name>
    </fcoe-fabric-map>
</fcoe>
```

Parameters

fcoe-fabric-map-name

Specifies the FCoE Fabric-map name

fcoe/fabric-name/{fabric-map-name}/advertisement

Configures the FIP advertisement interval for the FCoE fabric-map mode.

Usage

```
<fcoe xmlns="urn:brocade.com:mgmt:brocade-fcoe">
    <fcoe-fabric-map>
        <fcoe-fabric-map-name>SanA</fcoe-fabric-map-name>
        <fcoe-fip-advertisement>
            <fcoe-fip-advertisement-interval>10001</fcoe-fip-advertisement-interval>
        </fcoe-fip-advertisement>
    </fcoe-fabric-map>
</fcoe>
```

Parameters

fcoe-fabric-map-name

Specifies the FCoE Fabric-map name

fcoe-fip-advertisement-interval

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

fcoe/fabric-map/{fabric-map-name}/fcf-group

Configures a FCoE Forwarder (FCF) group on the Access Gateway (AG).

Usage

```
<fcoe xmlns="urn:brocade.com:mgmt:brocade-fcoe">
    <fcoe-fabric-map>
        <fcoe-fabric-map-name>SanA</fcoe-fabric-map-name>
        <fcoe-fcf-map>
            <fcf-map-name>rack-1</fcf-map-name>
        </fcoe-fcf-map>
    </fcoe-fabric-map>
</fcoe>
```

Parameters

fcoe-fabric-map-name

Specifies the FCoE Fabric-map name

fcf-map-name

Specifies the user-specified (nondefault) name of a configured FCF group

fcoe/fabric-map/{fabric-map-name}/fcf-group/{fcf-group-name}/fcf-rbid

Configures a FCoE Forwarder (FCF) group on the Access Gateway (AG) and enters FCoE FCF group configuration mode. The FCF supports FCoE edge ports or virtual Ethernet (VE) ports.

Usage

```
<fcoe xmlns="urn:brocade.com:mgmt:brocade-fcoe">
    <fcoe-fabric-map>
        <fcoe-fabric-map-name>SanA</fcoe-fabric-map-name>
        <fcoe-fcf-map>
            <fcf-map-name>rack-1</fcf-map-name>
            <fcf-map-fcf-rbid>1</fcf-map-fcf-rbid>
        </fcoe-fcf-map>
    </fcoe-fabric-map>
</fcoe>
```

Parameters

fcoe-fabric-map-name

Specifies the FCoE Fabric-map name

fcf-map-name

Specifies the user-specified (nondefault) name of a configured FCF group

fcf-map-fcf-rbid

Specifies the RBridge ID of the AG functioning as the FCF

fcoe/fabric-map/{fabric-map-name}/fcf-group/{fcf-group-name}/fif-rbid

Adds or removes an RBridge ID from the map.

Usage

```
<fcoe xmlns="urn:brocade.com:mgmt:brocade-fcoe">
    <fcoe-fabric-map>
        <fcoe-fabric-map-name>SanA</fcoe-fabric-map-name>
        <fcoe-fcf-map>
            <fcf-map-name>rack-1</fcf-map-name>
            <fcf-map-fif-rbid>
                <fcf-map-fif-rbid-add>5,10-11,13-15,35</fcf-map-fif-rbid-add>
            </fcf-map-fif-rbid>
        </fcoe-fcf-map>
    </fcoe-fabric-map>
</fcoe>
```

Parameters

fcoe-fabric-map-name
: Specifies the FCoE Fabric-map name

fcf-map-name
: Specifies the user-specified (nondefault) name of a configured FCF group

fcf-map-fif-rbid-add
: Adds one or more RBridge IDs. Comma delimiters and ranging (with a hyphen) are allowed. The RBridge ID value can range from 1 through 239. Up to a maximum of 537 characters is allowed in the configuration line

fcf-map-fif-rbid-remove
: Removes one or more RBridge IDs. Comma delimiters and ranging (with a hyphen) are allowed

fcoe/fabric-map/{fabric-map-name}/fcmap

Configures the Fabric Provided MAC Address (FPMA) FCoE MAC Address Prefix (FCMAP) value for an FCoE fabric-map.

Usage

```
<fcoe xmlns="urn:brocade.com:mgmt:brocade-fcoe">
    <fcoe-fabric-map>
        <fcoe-fabric-map-name>SanA</fcoe-fabric-map-name>
        <fcoe-fabric-map-fcmap>0E:FC:01</fcoe-fabric-map-fcmap>
    </fcoe-fabric-map>
</fcoe>
```

Parameters

fcoe-fabric-map-name

Specifies the FCoE Fabric-map name

fcoe-fabric-map-fcmap

Specifies a valid FPMA FCMAP value. The value can range from 0E:FC:00 through 0E:FC:FF

fcoe/fabric-map/{fabric-map-name}/fcport-group/fcport-group-rbid

Enables the user to map multiple local FC ports to a specified VLAN.

Usage

```
<fcoe xmlns=""urn:brocade.com:mgmt:brocade-fcoe"">
    <fcoe-fabric-map>
        <fcoe-fabric-map-name>SANA</fcoe-fabric-map-name>
        <fcoe-fcport-group-config>
            <fcport-group-rbid>
                <fcport-group-rbid-add>7</fcport-group-rbid-add>
            </fcport-group-rbid>
        </fcoe-fcport-group-config>
    </fcoe-fabric-map>
</fcoe>


<fcoe xmlns=""urn:brocade.com:mgmt:brocade-fcoe"">
    <fcoe-fabric-map>
        <fcoe-fabric-map-name>SANA</fcoe-fabric-map-name>
        <fcoe-fcport-group-config>
            <fcport-group-rbid>
                <fcport-group-rbid-remove>7</fcport-group-rbid-remove>
            </fcport-group-rbid>
        </fcoe-fcport-group-config>
    </fcoe-fabric-map>
</fcoe>
```

Parameters

fcoe-fabric-map-name

Specifies the FCoE fabric map name

fcport-group-rbid-add

Adds one or more FC port groups to an RBridge ID. Ranging and comma delimiters are allowed

fcport-group-rbid-remove

Removes one or more FC port groups from an RBridge ID. Ranging and comma delimiters are allowed

fcoe/fabric-map/{fabric-map-name}/keep-alive

Enables or disables keep-alive timeout.

Usage

```
<fcoe xmlns="urn:brocade.com:mgmt:brocade-fcoe">
    <fcoe-fabric-map>
        <fcoe-fabric-map-name>SanA</fcoe-fabric-map-name>
        <fcoe-fip-keep-alive>
            <fcoe-fip-keep-alive-timeout></fcoe-fip-keep-alive-timeout>
        </fcoe-fip-keep-alive>
</fcoe>
```

Parameters

fcoe-fabric-map-name

FCoe Fabric-map name

fcoe/fabric-map/{fabric-map-name}/priority

Configures the priority for the FCoE Fabric-map.

Usage

```
<fcoe xmlns="urn:brocade.com:mgmt:brocade-fcoe">
    <fcoe-fabric-map>
        <fcoe-fabric-map-name>SanA</fcoe-fabric-map-name>
        <fcoe-fabric-map-priority>4</fcoe-fabric-map-priority>
    </fcoe-fabric-map>
</fcoe>
```

Parameters

fcoe-fabric-map-name

FCoE Fabric-map name

fcoe-fabric-map-priority

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

fcoe/fabric-map/{fabric-map-name}/san-mode

Configures the san mode

Usage

```
<fcoe xmlns="urn:brocade.com:mgmt:brocade-fcoe">
    <fcoe-fabric-map>
        <fcoe-fabric-map-name>SanA</fcoe-fabric-map-name>
        <fcoe-fabric-mode>remote</fcoe-fabric-mode>
    </fcoe-fabric-map>
</fcoe>
```

Parameters

fcoe-fabric-map-name

FCoE Fabric-map name

fcoe-fabric-mode

FCoE san-mode

fcoe/fabric-map/{fabric-map-name}/virtual-fabric

Configures the Virtual-Fabric ID for the FCoE Fabric-map.

Usage

```
<fcoe xmlns="urn:brocade.com:mgmt:brocade-fcoe">
    <fcoe-fabric-map>
        <fcoe-fabric-map-name>SanA</fcoe-fabric-map-name>
        <fcoe-fabric-map-virtual-fabric>128</fcoe-fabric-map-virtual-fabric>
    </fcoe-fabric-map>
</fcoe>
```

Parameters

fcoe-fabric-map-name

FCoE Fabric-map name

fcoe-fabric-map-virtual-fabric

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

fcoe/fabric-map/{fabric-map-name}/vlan

Configures the VLAN for FCoE Fbaric-map.

Usage

```
<fcoe xmlns="urn:brocade.com:mgmt:brocade-fcoe">
    <fcoe-fabric-map>
        <fcoe-fabric-map-name>SanA</fcoe-fabric-map-name>
        <fcoe-fabric-map-vlan>5</fcoe-fabric-map-vlan>
    </fcoe-fabric-map>
</fcoe>
```

Parameters

fcoe-fabric-map-name

FCoE Fabric-map name

fcoe-fabric-map-vlan

FCoE VLAN. The value can range from 2 through 4090

hardware/connector

Executes connector mode for the purpose of configuring breakout mode on Quad SFPs (QSFPs).

Usage

```
<hardware xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <connector>
        <name>1/0/49</name>
    </connector>
</hardware>
```

Parameters

name

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

hardware/connector/{connector-name}/sfp

Allows a single physical 40G port to be utilized as multiple 10G ports. For example, a 40G port can be configured to operate as four individual 10G external ports.

Usage

```
<hardware xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <connector>
        <name>1/0/49</name>
        <sfp>
            <breakout>true</breakout>
        </sfp>
    </connector>
</hardware>
```

Parameters

name

Specifies the connector name

breakout

Enables breakout port

hardware/connector-group

Designates which connector group that FlexPort is allowed to access on the switch.

Usage

```
<hardware xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <connector-group>
        <id>1/0/1</id>
    </connector-group>
</hardware>
```

Parameters

id

Specifies a valid Fibre Channel port interface

hardware/connector-group/{connector-group-name}/speed

Configures the protocol and speed for the FlexPort connector group.

Usage

```
<hardware xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <connector-group>
        <id>1/0/1</id>
        <speed>HighMixed</speed>
    </connector-group>
</hardware>
```

Parameters

id

Specifies the connector group ID

speed

Specifies the speed can be any of the following values:

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

hardware/custom-profile

Enables the user to specify a customized hardware profile.

Usage

```
<hardware xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <custom-profile>
        <kap-custom-profile>
            <name>kap1</name>
        </kap-custom-profile>
    </custom-profile>
</hardware>
```

Parameters

name

Specifies the name of the user-specified profile

hardware/custom-profile/{profile-name}/bfd-l3

Configures protocol KAP parameters for BFD-L3 (Bidirectional Forwarding Detection for Layer 3).

Usage

```
<hardware xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <custom-profile>
        <kap-custom-profile>
            <name>kap1</name>
            <bfd-l3>
                <bfd_l3_hello_interval>1100</bfd_l3_hello_interval>
                <bfd_l3_num_entry>100</bfd_l3_num_entry>
            </bfd-l3>
        </kap-custom-profile>
    </custom-profile>
</hardware>
```

Parameters

name

Specifies the name of the user-specified profile

bfd_l3_hello_interval

Specifies BFD-L3 hello interval. The interval can range from 50 through 30000 milliseconds. The default hello interval is set to 1000 milliseconds

bfd_l3_num_entry

Specifies number of BFD-L3 keep alive entries per slot. The value can range from 0 through 200

hardware/custom-profile/{profile-name}/bfd-vxlan

Configures protocol KAP parameters for BFD VXLANs.

Usage

```
<hardware xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <custom-profile>
        <kap-custom-profile>
            <name>kap1</name>
            <bfd-vxlan>
                <bfd_vxlan_hello_interval>1100</bfd_vxlan_hello_interval>
                <bfd_vxlan_num_entry>10</bfd_vxlan_num_entry>
            </bfd-vxlan>
        </kap-custom-profile>
    </custom-profile>
</hardware>
```

Parameters

name

Specifies the name of the user-specified profile.

bfd_vxlan_hello_interval

Specifies the BFD-VXLAN hello interval. The interval can range from 100 through 30000 milliseconds. The default hello interval is set to 1000 milliseconds

bfd_vxlan_num_entry

Specifies the number of BFD-VXLAN keep alive entries per slot. The value can range from 0 through 20

hardware/custom-profile/{profile-name}/fcoe

Configures protocol KAP parameters for FCoE.

Usage

```
<hardware xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <custom-profile>
        <kap-custom-profile>
            <name>kap1</name>
            <fcoe>
                <fcoe_hello_interval>300</fcoe_hello_interval>
                <fcoe_num_entry>64</fcoe_num_entry>
            </fcoe>
        </kap-custom-profile>
    </custom-profile>
</hardware>
```

Parameters

name

Specifies the name of the user-specified profile

fcoe_hello_interval

Specifies the FCoE hello interval. The interval can range from 250 through 90000 milliseconds. The default hello interval is set to 8000 milliseconds

fcoe_num_entry

Specifies the number of FCoE keep alive entries per slot. The value can range as following

VDX67XX

The value can be set to 64

VDX6940-X

The value can be set to 144

VDX8770-X

The value can be set to 769

hardware/custom-profile/{profile-name}/lacp

Configures protocol KAP parameters for Link Aggregation Control Protocol.

Usage

```
<hardware xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <custom-profile>
        <kap-custom-profile>
            <name>kap1</name>
            <lacp>
                <lacp_hello_interval>1000</lacp_hello_interval>
                <lacp_num_entry>50</lacp_num_entry>
            </lacp>
        </kap-custom-profile>
    </custom-profile>
</hardware>
```

Parameters

name

Specifies the name of the user-specified profile

lacp_hello_interval

Specifies the LACP hello interval. The interval can be set to 1000 milliseconds (1 second) or 30000 milliseconds (30 seconds). The default hello interval is set to 30000 milliseconds (30 seconds)

lacp_num_entry

Specifies the number of LACP keep alive entries per slot. The value can range as following

VDX67XX

The value can range from 0 through 64

VDX6940-X

The value can range from 0 through 144

VDX8770-X

The value can range from 0 through 769

hardware/custom-profile/{profile-name}/rpvst

Configures protocol KAP parameters for Rapid Per-VLAN Spanning Tree.

Usage

```
<hardware xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <custom-profile>
        <kap-custom-profile>
            <name>kap1</name>
            <rpvst>
                <rpvst_hello_interval>250</rpvst_hello_interval>
                <rpvst_num_entry>25</rpvst_num_entry>
            </rpvst>
        </kap-custom-profile>
    </custom-profile>
</hardware>
```

Parameters

name

Specifies the name of the user-specified profile

rpvst_hello_interval

Specifies the RPVST hello interval. The interval can range from 1000 through 6000 milliseconds. The default hello interval is set to 2000 milliseconds

rpvst_num_entry

Specifies the number of RPVST keep alive entries per slot. The value can range as following

VDX67XX

The value can range from 0 through 128

VDX6940-X

The value can range from 0 through 512

VDX8770-X

The value can range from 0 through 512

hardware/custom-profile/{profile-name}/udld

Configures protocol KAP parameters for Unidirectional Link Detection.

Usage

```
<hardware xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <custom-profile>
        <kap-custom-profile>
            <name>kap1</name>
            <udld>
                <udld_hello_interval>250</udld_hello_interval>
                <udld_num_entry>25</udld_num_entry>
            </udld>
        </kap-custom-profile>
    </custom-profile>
</hardware>
```

Parameters

name

Specifies the name of the user-specified profile

udld_hello_interval

Specifies the UDLD hello interval. The interval can range from 100 through 6000 milliseconds. The default hello interval is set to 250 milliseconds

udld_num_entry

Specifies the number of UDLD keep alive entries per slot. The value can range as following

VDX67XX

The value can range from 0 through 64

VDX6940-X

The value can range from 0 through 144

VDX8770-X

The value can range from 0 through 769

hardware/custom-profile/{profile-name}/xstp

Configures protocol KAP parameters for any version of Spanning Tree Protocol.

Usage

```
<hardware xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <custom-profile>
        <kap-custom-profile>
            <name>kap1</name>
            <xstp>
                <xstp_hello_interval>250</xstp_hello_interval>
                <xstp_num_entry>25</xstp_num_entry>
            </xstp>
        </kap-custom-profile>
    </custom-profile>
</hardware>
```

Parameters

name

Specifies the name of the user-specified profile

xstp_hello_interval

Specifies the XSTP hello interval. The interval can range from 1000 through 6000 milliseconds. The default hello interval is set to 2000 milliseconds

xstp_num_entry

Specifies the number of XSTP keep alive entries per slot. The value can range as following

VDX67XX

The value can range from 0 through 64

VDX6940-X

The value can range from 0 through 144

VDX8770-X

The value can range from 0 through 769

hardware/flexport

Provides an option to change the Ethernet port to FibreChannel port.

Usage

```
<hardware xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <flexport>
        <id>1/0/1</id>
    </flexport>
</hardware>
```

Parameters

id

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

hardware/flexport/{flexport-name}/type

Configures the interface type.

Usage

```
<hardware xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <flexport>
        <id>1/0/1</id>
        <flexport_type>
            <type>ethernet</type>
            <instance>1</instance>
        </flexport_type>
    </flexport>
</hardware>
```

Parameters

id

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

type

Specifies the interface type. Two types of interface are allowed

Ethernet

Ethernet interface

FibreChannel

FibreChannel interface

interface/fcoe/{fcoe-port}/bind

Creates a persistent binding between the logical FCoE port and the ten/forty gigabit or LAG port.

Usage

```
<interface xmlns=""urn:brocade.com:mgmt:brocade-interface"">
    <fcoe-port>
        <name>1/1/55</name>
        <bind>
            <mac-address>00:05:1e:c5:96:a4</mac-address>
        </bind>
    </fcoe-port>
</interface>
```

Parameters

name

Specifies the FCoE port number

bind

Specifies the binging type

<N>gigabitethernet

Represents a valid, physical Ethernet subtype for all available Ethernet speeds. Enter ? to see which interface subtypes are available. Replace
<N>gigabitethernet with the desired operand (for example, tengigabitethernet specifies a 10-Gb Ethernet port)

port-channel *number*

Specifies a port-channel interface

mac-address *address*

Specifies a MAC address. The valid format is HH:HH:HH:HH:HH:HH

interface/fibrechannel/{fc-port-name}/fec-enable

Configures the state of the Forward Error Correction (FEC) on an interface port.

Usage

You need to execute the command on both sides of the link. The link will not come up if FEC is enabled on one side and disabled on the other side.

```
<interface xmlns=""urn:brocade.com:mgmt:brocade-interface"">
    <fc-port>
        <name>7/0/5</name>
        <fec-enable></fec-enable>
    </fc-port>
</interface>
```

Parameters

name

Specifies the Fibrechannel port number

fec-enable

Enables Forward Error Correction (FEC) on an interface port

interface/fibrechannel/{fc-port-name}/isl-r_rdy

Sets the flow control primitive used to prevent frame drop to ISL R_RDY mode.

Usage

```
<interface xmlns=""urn:brocade.com:mgmt:brocade-interface"">
    <fc-port>
        <name>7/0/5</name>
        <isl-r_rdy-mode></isl-r_rdy-mode>
    </fc-port>
</interface>
```

Parameters

name

Specifies the Fibrechannel port number

isl-r_rdy-mode

Enables ISL R_RDY mode on a port

interface/fibrechannel/{fc-port-name}/speed

Configures the speed of the FibreChannel port.

Usage

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fc-port>
        <name>8/0/1</name>
        <fc-port-speed>4gbps</fc-port-speed>
    </fc-port>
</interface>
```

Parameters

name

Specifies the name of the FibreChannel port

fc-port-speed

Specifies the speed of the Fibrechannel port

interface/fibrechannel/{fc-port-name}/trunk-enable

Enables port trunking on a Fibre Channel port.

Usage

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fc-port>
        <name>8/0/1</name>
        <trunk-enable></trunk-enable>
    </fc-port>
</interface>
```

Parameters

name

Specifies the Fibrechannel port number

trunk-enable

Enables port trunking on a Fibre Channel port

interface/management

Configures management port.

Usage

```
interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <management>
        <name>1/0</name>
    </management>
</interface>
```

Parameters

name

Specifies the management port number

interface/port-channel/{pc-name}/esi/auto

Configures the Ethernet Segment Identifier (ESI) value for an interface.

Usage

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <port-channel>
        <name>1</name>
        <esi xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <auto>
                <auto-value-assignee>lacp</auto-value-assignee>
            </auto>
        </esi>
    </port-channel>
</interface>
```

Parameters

name

Specifies the port-channel number. The number can range from 1 through 6144

auto-value-assignee

Specifies that the ESI value is automatically derived using the LACP Partner SystemID/Port Key

History

Release version	History
7.0.0	This Netconf call was introduced.

interface/port-channel/{pc-name}/ip/address

Configures an IP address of an interface.

Usage

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <port-channel>
        <name>3</name>
        <ip>
            <ip-config xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <address>
                    <address>10.10.10.1/24</address>
                </address>
            </ip-config>
        </ip>
    </port-channel>
</interface>
```

Parameters

name

Specifies the port-channel number. The number can range from 1 through 6144

address

Specifies the IP addressin dotted decimal/Mask format

History

Release version	History
7.0.0	This Netconf call was introduced.

interface/port-channel/{pc-name}/ipv6/address

Configures the IPv6 address of an interface.

Usage

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <port-channel>
        <name>3</name>
        <ipv6>
            <ipv6-config xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <address>
                    <ipv6-address>
                        <address>1000:1:3:1::1/127</address>
                    </ipv6-address>
                </address>
            </ipv6-config>
        </ipv6>
    </port-channel>
</interface>
```

Parameters

name

Specifies the port-channel number. The number can range from 1 through 6144

address

Specifies the IPv6 address

History

Release version	History
7.0.0	This Netconf call was introduced.

interface/port-channel/{pc-name}/ipv6/address/{ipv6-address}/anycast

Configures IPv6 address as anycast.

Usage

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <port-channel>
        <name>3</name>
        <ipv6>
            <ipv6-config xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <address>
                    <ipv6-address>
                        <address>2001::1/64</address>
                        <anycast></anycast>
                    </ipv6-address>
                </address>
            </ipv6-config>
        </ipv6>
    </port-channel>
</interface>
```

Parameters

name

Specifies the port-channel number. The number can range from 1 through 6144

address

Specifies the IPv6 address

anycast

Sets IPv6 address as anycast

History

Release version	History
7.0.0	This Netconf call was introduced.

interface/port-channel/{pc-name}/ipv6/address/{ipv6-address}/link-local

Configures IPv6 address to overwrite automatically computed link-local address.

Usage

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <port-channel>
        <name>3</name>
        <ipv6>
            <ipv6-config xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <address>
                    <link-local-config>
                        <link-local-address>fe80::1234:3257:9652</link-local-address>
                        <link-local></link-local>
                    </link-local-config>
                </address>
            </ipv6-config>
        </ipv6>
    </port-channel>
</interface>
```

Parameters

name

Specifies the port-channel number. The number can range from 1 through 6144

link-local-address

Specifies the IPv6 link-local address

link-local

Sets IPv6 address tp override automatically computed link-local address

History

Release version	History
7.0.0	This Netconf call was introduced.

interface/port-channel/{pc-name}/ipv6/address/use-link-local-only

Configures automatically configured link-local address.

Usage

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <port-channel>
        <name>3</name>
        <ipv6>
            <ipv6-config xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <address>
                    <use-link-local-only></use-link-local-only>
                </address>
            </ipv6-config>
        </ipv6>
    </port-channel>
</interface>
```

Parameters

name

Specifies the port-channel number. The number can range from 1 through 6144

use-link-local-only

Sets IPv6 address to automatically configured link-local address

History

Release version	History
7.0.0	This Netconf call was introduced.

interface/port-channel/{pc-name}/load-balance

Configures load balancing commands.

Usage

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <port-channel>
        <name>1</name>
        <load-balance>dst-mac-vid</load-balance>
    </port-channel>
</interface>
```

Parameters

name

Specifies the port-channel number. The number can range from 1 through 6144

load-balance

Configures load balancing

dst-mac-vid

Destination MAC address and VID-based load balancing

src-dst-ip

Source and Destination IP address-based load balancing

src-dst-ip-mac-vid

Source and Destination IP and MAC address and VID-based load balancing

src-dst-ip-mac-vid-port

Source and Destination IP, MAC address, VID and TCP/UDP port-based load balancing (default)

src-dst-ip-port

Source and Destination IP and TCP/UDP port-based load balancin

src-dst-mac-vid

Source and Destination MAC address and VID-based load balancing

src-mac-vid

Source MAC address and VID-based load balancing

interface/port-channel/{pc-name}/minimum-links

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

Usage

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <port-channel>
        <name>1</name>
        <minimum-links>2</minimum-links>
    <port-channel>
</interface>
```

Parameters

name

Specifies the port channel number

minimum-links

Specifies the least number of operationally UP links to declare port-channel UP. The value can range from 1 through 32. The default value is set to 1

interface/port-channel/{pc-name}/speed

Configures port channel speed.

Usage

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <port-channel>
        <name>1</name>
        <po-speed>1000</po-speed>
    </port-channel>
</interface>
```

Parameters

name

Specifies the port channel nuymber

po-speed

Specifies the port channel speed. The value can range from 1 through 6144

interface/port-channel/{pc-name}/vlag

Configures Virtual LAG.

Usage

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <port-channel>
        <name>1</name>
        <vlag>
            <ignore-split></ignore-split>
        </vlag>
    </port-channel>
</interface>
```

Parameters

name

Specifies the port-channel name

ignore-split

Enables vlag ignore-split-recovery

interface/tengigabitethernet

Configures TengigabitEthernet interface port.

Usage

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies tengigabitethernet interface port

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

Configures Bidirectional Forwarding Detection (BFD) session parameters on an interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <bfd>
            <interval>
                <min-tx>250</min-tx>
                <min-rx>200</min-rx>
                <multiplier>4</multiplier>
            </interval>
        </bfd>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

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 from 3 through 50. The default value is 3

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

Disables Bidirectional Forwarding Detection (BFD) on an interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <bfd>
            <bfd-shutdown></bfd-shutdown>
        </bfd>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

bfd-shutdown

Disables the BFD session

interface/{interface-type}/{interface-name}/bpdu-drop/enable

Drops STP, RSTP, MSTP, and PVST and RPVST bridge protocol data units (BPDUs), disabling the tunneling of those protocols on an interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <bpdu-drop xmlns=""urn:brocade.com:mgmt:brocade-xstp"">
            <enable></enable>
            <direction>rx</direction>
        </bpdu-drop>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

enable

Enables BPDU-drop

direction

Specifies the tunneling direction

tx

Disables tunneling in the transmit direction

rx

Disables tunneling in the receive direction

all

Disables tunneling in both the transmit and receive directions

interface/{interface-type}/{interface-name}/cee

Applies a Converged Enhanced Ethernet (CEE) provisioning map on an interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/2</name>
        <cee>default</cee>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

cee

Applies default CEE map

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

Enables Link Aggregation on an interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>8/0/1</name>
        <channel-group>
            <port-int>4</port-int>
            <mode>active</mode>
            <type>standard</type>
        </channel-group>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

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

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

brocade

Specifies the Extreme proprietary hardware-based trunking

standard

Specifies the 802.3ad standard-based LAG

interface/{interface-type}/{interface-name}/description

Specifies a string that contains the description of a specified interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <description>interfaceten</description>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

description

Specifies characters describing the interface. The string can be between 1 and 63 ASCII characters in length

interface/{interface-type}/{interface-name}/deviceconnectivity

Designates a port as being connected to a storage device.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <connectivity xmlns="urn:brocade.com:mgmt:brocade-maps">
            <deviceconnectivity>iSCSI</deviceconnectivity>
        </connectivity>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

deviceconnectivity

Sets device connectivity to one of the following IP storage device

DAS

Indicates interface's device connectivity to DAS device

NAS

Indicates interface's device connectivity to NAS device

None

Indicates the port is not connected to a storage device

iSCSI

Indicates interface's device connectivity to iSCSI device

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

Enables 802.1Xauthentication on a port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <dot1x xmlns="urn:brocade.com:mgmt:brocade-dot1x">
            <authentication></authentication>
        </dot1x>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

authentication

Enables dot1x on a port

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

Enables the MAC-based authentication bypass on an interface.

Usage

```
<interface xmlns=""urn:brocade.com:mgmt:brocade-interface"">
           <tengigabitethernet>
              <name>9/0/25</name>
              <dot1x xmlns=""urn:brocade.com:mgmt:brocade-dot1x"">
                 <mac-auth-bypass></mac-auth-bypass>
              </dot1x>
           </tengigabitethernet>
        </interface>
```

Parameters

name

Specifies the name of the interface.

mac-auth-bypass

Enables the MAC-based authentication bypass.

History

Release version	History
7.1.0	This NETCONF call was introduced.

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

Enables the MAC-based authentication on an interface.

Usage

```
<interface xmlns=""urn:brocade.com:mgmt:brocade-interface"">
            <tengigabitethernet>
               <name>9/0/25</name>
               <dot1x xmlns=""urn:brocade.com:mgmt:brocade-dot1x"">
                  <mac-auth-enable></mac-auth-enable>
               </dot1x>
            </tengigabitethernet>
         </interface>
```

Parameters

name

Specifies the name of the interface.

mac-auth-enable

Enables the MAC-based authentication.

History

Release version	History
7.1.0	This NETCONF call was introduced.

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

Controls port-state authorization.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <dot1x xmlns="urn:brocade.com:mgmt:brocade-dot1x">
            <port-control>auto</port-control>
        </dot1x>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

port-control

The following three port options are available

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.

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

Sets the protocol version.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <dot1x xmlns="urn:brocade.com:mgmt:brocade-dot1x">
            <protocol-version>2</protocol-version>
        </dot1x>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the name of the interface

protocol-version

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

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

Configures the number of seconds that a switch remains quiet between a failed authentication and an attempt to retry authentication.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <dot1x xmlns="urn:brocade.com:mgmt:brocade-dot1x">
            <quiet-period>70</quiet-period>
        </dot1x>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

quiet-period

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

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

Enables 802.1X port reauthentication.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <dot1x xmlns="urn:brocade.com:mgmt:brocade-dot1x">
            <reauthentication></reauthentication>
        </dot1x>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

reauthentication

Enables reauthentication on a port

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

Configures the maximum number of times that a port attempts 802.1Xreauthentication before the port changes to the unauthorized state.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <dot1x xmlns="urn:brocade.com:mgmt:brocade-dot1x">
            <reauthMax>3</reauthMax>
        </dot1x>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

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

interface/{interface-type}/{interface-name}/dot1x/timeout/re-authperiod

Configures the number of seconds between reauthorization attempts on a specified interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <dot1x xmlns="urn:brocade.com:mgmt:brocade-dot1x">
            <timeout>
                <re-authperiod>3601</re-authperiod>
            </timeout>
        </dot1x>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

re-authperiod

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

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

Sets the 802.1X authentication-sever response timeout for a specified interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <dot1x xmlns="urn:brocade.com:mgmt:brocade-dot1x">
            <timeout>
                <server-timeout>31</server-timeout>
            </timeout>
        </dot1x>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

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

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

Configures the EAP response timeout for 802.1X authentication.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <dot1x xmlns="urn:brocade.com:mgmt:brocade-dot1x">
            <timeout>
                <supp-timeout>31</supp-timeout>
            </timeout>
        </dot1x>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

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

interface/{interface-type}/{interface-name}/dot1x/timeout/tx-period

Configures the time the switch waits for a response to an Extensible Authentication Protocol (EAP) request or identity frame.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <dot1x xmlns="urn:brocade.com:mgmt:brocade-dot1x">
            <timeout>
                <tx-period>33</tx-period>
            </timeout>
        </dot1x>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the name of the interface

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

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

Sets the ELD priority for a port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/2</name>
        <edge-loop-detection>
            <eldprio>129</eldprio>
        </edge-loop-detection>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface type

eldprio

Specifies the port priority. The value can range from 0 through 256. The default value is 128

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

Enables edge-loop detection (ELD) on a port and VLAN.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/2</name>
        <edge-loop-detection>
            <eldvlan>1</eldvlan>
        </edge-loop-detection>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

eldvlan

Specifies the VLAN ID

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

Configures a Layer 3 Ethernet interface to support static or dynamic diagnostic-port (D_Port) testing.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <fabric xmlns="urn:brocade.com:mgmt:brocade-fcoe">
            <fabric-dport>
                <fabric-dport-mode>none</fabric-dport-mode>
            </fabric-dport>
        </fabric>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

fabric-dport-mode

Specifies the dport mode

dynamic

Configures 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

Configures the interface to support static D_Port testing

History

Release version	History
7.0.0	This Netconf call was introduced.

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

Enables the administration and operational state of an Inter-Switch Link (ISL).

Usage

Supported interface types are: FortyGigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <fabric xmlns="urn:brocade.com:mgmt:brocade-fcoe">
            <fabric-isl>
                <fabric-isl-enable></fabric-isl-enable>
            </fabric-isl>
        </fabric>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

fabric-isl-enable

Enables fabric isl status

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

Disables neighbor discovery for Extreme devices on a per-interface basis so that the Extreme VDX does not to bring up its ports in an uncontrolled fashion until the fabric completely forms. This command is needed when an unconditional EtherChannel is configured between the VCS fabric and an end node, usually ESX or Hypervisors, which does not support LACP. If a Extreme VDX brings up its ports unexpectedly, the data traffic may be compromised.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:extreme-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <fabric xmlns="urn:brocade.com:mgmt:extreme-fcoe">
            <neighbor-discovery>
                <disable></disable>
            </neighbor-discovery>
        </fabric>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

disable

Disables neighbor discovery for this port

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

Enables trunking on a port.

Usage

Supported interface types are: FortyGigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <fabric xmlns="urn:brocade.com:mgmt:brocade-fcoe">
            <fabric-trunk>
                <fabric-trunk-enable></fabric-trunk-enable>
            </fabric-trunk>
        </fabric>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

fabric-trunk-enable

Enables fabric trunk status

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

Configures the port to be an FCoE port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <fcoeport xmlns="urn:brocade.com:mgmt:brocade-fcoe">
            <fcoeport-map>default</fcoeport-map>
        </fcoeport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

fcoeport-map

Specifies the name of the FCoE fabric map.

interface/{interface-type}/{interface-name}/fcoeport/{port-name}/ns-ip-registration

Accepts the RIP_NN request.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>103/1/18</name>
        <fcoeport xmlns="urn:brocade.com:mgmt:brocade-fcoe">
            <fcoeport-map>default</fcoeport-map>
            <ns-ip-registration></ns-ip-registration>
        </fcoeport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

fcoeport-map

Specifies the Fcoeport name

ns-ip-registration

Enables the RIP_NN request

History

Release version	History
7.0.0	This Netconf call was introduced.

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

Applies rules specified in an access control list (ACL) to traffic entering or exiting an interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ip-acl-interface xmlns="urn:brocade.com:mgmt:brocade-ip-access-list">
            <ip>
                <access-group>
                    <ip-access-list>acl11</ip-access-list>
                    <ip-direction>out</ip-direction>
                </access-group>
            </ip>
        </ip-acl-interface>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

ip-access-list

Specifies the ACL name

ip-direction

Specifies the IP direction

in

Specifies the ACL binding direction as ingress

out

Specifies the ACL binding direction as egress.

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

Configures an IP address.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ip>
            <ip-config xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <address>
                    <address>1.1.1.1/24</address>
                    <ospf-ignore></ospf-ignore>
                </address>
            </ip-config>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name
: Specifies the interface name

address
: Specifies the IP address in the format A.B.C.D/M

ospf-ignore
: Disables adjacency formation with OSPF neighbors and advertisement of the interface to OSPF

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

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

Configures the interface as trusted, for all VLANs configured on it, which is one of the steps implementing dynamic ARP inspection (DAI) on a VLAN or VE.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ip>
            <arp-node-config xmlns="urn:brocade.com:mgmt:brocade-dai">
                <arp>
                    <inspection>
                        <trust></trust>
                    </inspection>
                </arp>
            </arp-node-config>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

trust

Sets the interface as trusted

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

Enables address-resolution protocol (ARP) learning from any ARP request.

Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ip>
            <ip-config xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <arp>
                    <learn-any></learn-any>
                </arp>
            </ip-config>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

learn-any

Enables ARP learning from any ARP request

History

Release version	History
7.0.0	This Netconf call was introduced.

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

Configures how long an ARP entry stays in cache before the cache refreshes.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ip>
            <ip-config xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <arp-aging-timeout>220</arp-aging-timeout>
            </ip-config>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

arp-aging-timeout

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

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

Configures the IP DHCP Relay on a Layer 3 interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ip>
            <interface-te-dhcp-conf xmlns="urn:brocade.com:mgmt:brocade-dhcp">
                <dhcp>
                    <relay>
                        <servers>
                            <relay-ip-addr>1.1.1.1</relay-ip-addr>
                            <server-vrf-name>mgmt-vrf</server-vrf-name>
                        </servers>
                    </relay>
                </dhcp>
            </interface-te-dhcp-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

relay-ip-addr

Specifies the IPv4 address of the DHCP server where the DHCP client requests are to be forwarded

server-vrf-name

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

Configures the IP DHCP Relay on a Layer 3 gateway interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ip>
            <interface-te-dhcp-conf xmlns="urn:brocade.com:mgmt:brocade-dhcp">
                <dhcp>
                    <relay>
                        <gateway>1.1.1.1</gateway>
                    </relay>
                </dhcp>
            </interface-te-dhcp-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

gateway

Specifies the IPv4 gateway address of the DHCP server where the DHCP client requests are to be forwarded

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

Enables IP directed broadcasts on an interface. A directed broadcast is an IP broadcast to all devices within a single directly attached network or subnet.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ip>
            <ip-config xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <directed-broadcast></directed-broadcast>
            </ip-config>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

directed-broadcast

Enables directed IP broadcasts forwarding

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

Enables IPv4 Internet Control Message Protocol (ICMP) address masks.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ip>
            <icmp xmlns="urn:brocade.com:mgmt:brocade-icmp">
                <address-mask></address-mask>
            </icmp>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

address-mask

Enables ICMP address mask

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

Enables the generation of an Internet Control Message Protocol (ICMP) Echo Reply message

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ip>
            <icmp xmlns="urn:brocade.com:mgmt:brocade-icmp">
                <echo-reply></echo-reply>
            </icmp>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the name of the interface

echo-reply

Enables echo-reply

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

Configures the rate at which IPv4 Internet Control Message Protocol (ICMP) messages are sent on a network.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ip>
            <icmp xmlns="urn:brocade.com:mgmt:brocade-icmp">
                <rate-limiting>2000</rate-limiting>
            </icmp>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

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

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

Enables IPv4 Internet Control Message Protocol (ICMP) Redirect messages, which request that packets be sent on an alternative route.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ip>
            <icmp xmlns="urn:brocade.com:mgmt:brocade-icmp">
                <redirect></redirect>
            </icmp>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

redirect

Enables IPv4 Internet Control Message Protocol (ICMP) Redirect messages

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

Prohibits routers from forwarding an IPv4 Internet Control Message Protocol (ICMP) Destination Unreachable Code 3 (port unreachable) message on a point-to-point link back onto the ingress port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ip>
            <icmp xmlns="urn:brocade.com:mgmt:brocade-icmp">
                <unreachable></unreachable>
            </icmp>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

unreachable

Enables destination unreachable messages

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

Removes a group from the IGMP table immediately following receipt of a Leave Group request.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ip>
            <igmp-phy-intf-cfg xmlns="urn:brocade.com:mgmt:brocade-igmp">
                <igmp>
                    <immediate-leave></immediate-leave>
                </igmp>
            </igmp-phy-intf-cfg>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

immediate-leave

Enables immediate leave processing

interface/{interface-type}/{interface-name}/ip/igmp/last-member-query-count

Sets the last-member query count.

Usage

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

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>1</name>
            <ip>
                <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping">
                    <last-member-query-count>3</last-member-query-count>
                </igmp>
            </ip>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the interface name

last-member-query-count

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

History

Release version	History
7.0.	This Netconf call was introduced.

interface/{interface-type}/{interface-name}/ip/igmp/last-member-query-interval

Configures last member query interval.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ip>
            <igmp-phy-intf-cfg xmlns="urn:brocade.com:mgmt:brocade-igmp">
                <igmp>
                    <last-member-query-interval>1500</last-member-query-interval>
                </igmp>
            </igmp-phy-intf-cfg>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

last-member-query-interval

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

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

Configures the query interval for a VLAN. The query interval is the amount of time between IGMP query messages sent by the switch.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ip>
            <igmp-phy-intf-cfg xmlns="urn:brocade.com:mgmt:brocade-igmp">
                <igmp>
                    <query-interval>150</query-interval>
                </igmp>
            </igmp-phy-intf-cfg>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

query-interval

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

interface/{interface-type}/{interface-name}/ip/igmp/query-max-response-time

Configures the maximum response time for IGMP queries

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ip>
            <igmp-phy-intf-cfg xmlns="urn:brocade.com:mgmt:brocade-igmp">
                <igmp>
                    <query-max-response-time>15</query-max-response-time>
                </igmp>
            </igmp-phy-intf-cfg>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

query-max-response-time

Specifies IGMP query max response time in seconds. The response time can range from 1 through 25 seconds. By default, the response time is set to 10 seconds

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

Configures the robustness variable.

Usage

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

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>1</name>
            <ip>
                <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping">
                    <robustness-variable>3</robustness-variable>
                </igmp>
            </ip>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the interface name

robustness-variable

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

History

Release version	History
7.0.0	This Netconf call was introduced.

interface/{interface-type}/{interface-name}/ip/igmp/startup-query-count

Configures the start up query count.

Usage

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

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>1</name>
            <ip>
                <igmp>
                    <startup-query-count>3</startup-query-count>
                </igmp>
            </ip>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the interface name

startup-query-count

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

History

Release version	History
7.0.0	This Netconf call was introduced.

interface/{interface-type}/{interface-name}/ip/igmp/startup-query-interval

Configures the start up query interval.

Usage

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

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>1</name>
            <ip>
                <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping">
                    <startup-query-interval>10</startup-query-interval>
                </igmp>
            </ip>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the interface name

startup-query-interval

Specifies the start up query interval value. The value can range from 1 through 450. The default value is 1

History

Release version	History
7.0.0	This Netconf call was introduced.

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

Sets IP MTU value to the interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ip>
            <ip-config xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <mtu>1600</mtu>
            </ip-config>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

mtu

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

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

Configures a multicast boundary on an interface. You can also filter a range of multicast-group addresses by specifying a prefix list.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ip>
            <pim-intf-phy-cont xmlns="urn:brocade.com:mgmt:brocade-pim">
                <pim-int-cmd>
                    <mcast-bdry-prefix-list>prefix1</mcast-bdry-prefix-list>
                </pim-int-cmd>
            </pim-intf-phy-cont>
        </ip>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

mcast-bdry-prefix-list

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 (-)

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

Enables Open Shortest Path First (OSPF) active information.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf-interface-config>
                    <active></active>
                </ospf-interface-config>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

active

Enables active information

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

Configures OSPF areas.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>7/1/8</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf1>
                    <area>192.5.0.0</area>
                </ospf1>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

area

Species the area id in IP address or decimal format

interface/{interface-type}/{interface-name}/ip/ospf/auth-change-wait-time

Configures authentication change wait time.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf-interface-config>
                    <auth-change-wait-time>100</auth-change-wait-time>
                </ospf-interface-config>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

auth-change-wait-time

Specifies the time before an authentication change takes place. The wait time can range from 0 through 14400

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

Configures simple password-based authentication for OSPF..

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf-interface-config>
                    <authentication-key>
                        <auth-key-table>
                            <encrypttype>2</encrypttype>
                            <auth-key>$RG5c</auth-key>
                        </auth-key-table>
                    </authentication-key>
                </ospf-interface-config>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

encrypttype

The following encryption types are available

0

No encryption. OSPF processes password as a plain text password

2

Expects the user to provide the encrypted password, preceded by a dollar sign ($) sign

255

Expects the user to provide the encrypted password, and **255** internally maps to **2**

auth-key

Specifies the OSPF password

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

Enables Bidirectional Forwarding Detection (BFD) on a specific OSPFv2 interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf-interface-config>
                    <bfd>
                        <intf-bfd-enable></intf-bfd-enable>
                    </bfd>
                </ospf-interface-config>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

intf-bfd-enable

Enables BFD operation mode

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

Configures interface cost.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf-interface-config>
                    <cost>100</cost>
                </ospf-interface-config>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

cost

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

interface/{interface-type}/{interface-name}/ip/ospf/database-filter/all-external

Filters all external OSPF LSAs during synchronization and flooding.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf-interface-config>
                    <database-filter>
                        <all-external>out</all-external>
                    </database-filter>
                </ospf-interface-config>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

all-external

Blocks all external LSAs

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

interface/{interface-type}/{interface-name}/ip/ospf/database-filter/all-out

Filters all OSPF LSAs during synchronization and flooding.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf-interface-config>
                    <database-filter>
                        <all-out></all-out>
                    </database-filter>
                </ospf-interface-config>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

all-out

Blocks all LSAs

interface/{interface-type}/{interface-name}/ip/ospf/database-filter/all-summary

Filters all summary external OSPF LSAs during synchronization and flooding.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf-interface-config>
                    <database-filter>
                        <all-summary-external>out</all-summary-external>
                    </database-filter>
                </ospf-interface-config>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface naem

all-summary-external

Blocks all summary (Type 3) and external (type 5) LSAs

allow-default-and-type4-out

Database filter allows default type-4

allow-default-out

Database filter allows default

out

Database filter allows all

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

Configures the neighbor dead interval, which is the number of seconds that a neighbor router waits for a hello packet from the device before declaring the router down.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf-interface-config>
                    <dead-interval>500</dead-interval>
                </ospf-interface-config>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

dead-interval

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

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

Configures the hello interval, which is the length of time between the transmission of hello packets that this interface sends to neighbor routers.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf-interface-config>
                    <hello-interval>400</hello-interval>
                </ospf-interface-config>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

hello-interval

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

interface/{interface-type}/{interface-name}/ip/ospf/md5-authentication/key-activation-wait-time

Configures the time that OSPF waits before activating a new key.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf-interface-config>
                    <md5-authentication>
                        <key-activation-wait-time>100</key-activation-wait-time>
                    </md5-authentication>
                </ospf-interface-config>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

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

interface/{interface-type}/{interface-name}/ip/ospf/md5-authentication/key-id

Configures MD5 key and OSPF password.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf-interface-config>
                    <md5-authentication>
                        <key-table>
                            <key-id>2</key-id>
                            <key>2</key>
                            <md5-authentication-key>$RG5c</md5-authentication-key>
                        </key-table>
                    </md5-authentication>
                </ospf-interface-config>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

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 mong 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 encrytion key

0

No encryption. OSPF processes password as a plain text password

2

Expects the user to provide the encrypted password, preceded by a dollar sign ($)

255

Expects the user to provide the encrypted password, and **255** internally maps to **2**

md5-authentication-key

Specifies the OSPF password

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

Enables MTU-match checking.In default operation, the IP MTU on both sides of an OSPF link must be the same, and a check of the MTU is performed when Hello packets are first exchanged.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf-interface-config>
                    <mtu-ignore></mtu-ignore>
                </ospf-interface-config>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

mtu-ignore

Disables OSPF MTU mismatch detection

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

Configures the network type for the interface. Point-to-point can support unnumbered links, which requires less processing by OSPF.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf-interface-config>
                    <network>broadcast</network>
                </ospf-interface-config>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

network

Specifies the network type

broadcast

Network type is broadcast, such as Ethernet

non-broadcast

Network type is point-to-point

point-to-point

Point-to-point interface mode

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

Configures an OSPF interface as passive.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf-interface-config>
                    <passive></passive>
                </ospf-interface-config>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

passive

Enables passive information

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

Configures priority for designated router (DR) election.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf-interface-config>
                    <priority>2</priority>
                </ospf-interface-config>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

priority

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

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

Configures retransmit interval. The interval is the time between Link-State Advertisement (LSA) retransmissions to adjacent routers for this interface.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf-interface-config>
                    <retransmit-interval>100</retransmit-interval>
                </ospf-interface-config>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

retransmit-interval

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

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

Configures the transmit delay for link-update packets, which is the estimated time required for OSPF to send link-state update packets on the interface to which you are connected.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ip>
            <interface-te-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                <ospf-interface-config>
                    <transmit-delay>150</transmit-delay>
                </ospf-interface-config>
            </interface-te-ospf-conf>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

transmit-delay

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

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

Configures the designated router (DR) priority of a protocol Independent Multicast (PIM) enabled interface.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ip>
            <pim-intf-phy-cont xmlns="urn:brocade.com:mgmt:brocade-pim">
                <pim-int-cmd>
                    <pim>
                        <dr-priority>1</dr-priority>
                    </pim>
                </pim-int-cmd>
            </pim-intf-phy-cont>
        </ip>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

dr-priority

Specifies the DR priority value. The value can range from 0 through 65535. The default value is 1

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

Enables Protocol-Independent Multicast (PIM) multinet on an interface.

Usage

```
<interface xmlns=""urn:brocade.com:mgmt:brocade-interface"">
            <fortygigabitethernet>
               <name>9/0/36</name>
               <ip>
                  <pim-intf-phy-cont xmlns=""urn:brocade.com:mgmt:brocade-pim"">
                     <pim-int-cmd>
                        <pim-sparse></pim-sparse>
                        <pim>
                           <multinet>
                              <multinet_enable></multinet_enable>
                           </multinet>
                        </pim>
                     </pim-int-cmd>
                  </pim-intf-phy-cont>
               </ip>
            </fortygigabitethernet>
         </interface>
```

Parameters

name

Specifies the interface name.

multinet_enable

Enables multinet on the interface.

History

Release version	History
7.1.0	This NETCONF call was introduced.

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

By default, directly connected routers under protocol-independent multicast (PIM) form neighborship with one another. Using this command, you can block specified routers from neighborship.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ip>
            <pim-intf-phy-cont xmlns="urn:brocade.com:mgmt:brocade-pim">
                <pim-int-cmd>
                    <pim>
                        <neighbor-filter>prefix1</neighbor-filter>
                    </pim>
                </pim-int-cmd>
            </pim-intf-phy-cont>
        </ip>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

neighbor-filter

Specifies the name of a prefix list defined by the ip prefix-list command. Permitted values are between 1 and 63 characters. Although the first character must be alphabetic, the others can be alphanumeric, underscores (_), or minus signs (-).

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

Enables Protocol Independent Multicast Sparse Mode.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ip>
            <pim-intf-phy-cont xmlns="urn:brocade.com:mgmt:brocade-pim">
                <pim-int-cmd>
                    <pim-sparse></pim-sparse>
                </pim-int-cmd>
            </pim-intf-phy-cont>
        </ip>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

pim-sparse

Enables PIM sparse mode

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

Enables policy-based routing (PBR) on any Layer 3 interface after ACLs and route map entries are configured.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ip-pbr-interface xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
            <ip>
                <policy>
                    <route-map>
                        <route-map-name>map1</route-map-name>
                    </route-map>
                </policy>
            </ip>
        </ip-pbr-interface>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

route-map-name

Specifies the name of the route-map

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

Enables proxy ARP on an interface.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ip>
            <ip-config xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <proxy-arp></proxy-arp>
            </ip-config>
        </ip>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

proxy-arp

Enables proxy ARP

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

Designates the interface as an unnumbered IP interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>103/4/10</name>
        <ip>
            <ip-config xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <unnumbered>
                    <ip-donor-interface-type>ve</ip-donor-interface-type>
                    <ip-donor-interface-name>1</ip-donor-interface-name>
                </unnumbered>
            </ip-config>
        </ip>
    </fortygigabitethernet>
</interface>
```

Parameters

name
: Specifies the interface name

ip-donor-interface-type
: Specifies the interface type

ip-donor-interface-name
: Specifies the interface name

History

Release version	History
7.0.0	This Netconf call was introduced.

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

Applies rules specified in an IPv6 access control list (ACL) to traffic entering or exiting an interface.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <access-group xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list">
                <ipv6-access-list>acl12</ipv6-access-list>
                <ip-direction>in</ip-direction>
                <traffic-type>routed</traffic-type>
            </access-group>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name
: Specifies the interface name

ipv6-access-list
: Specifies the name of the standard or extended IP access list

ip-direction
: Specifies the binding direction

ingress
: Ingress direction

egress
: Egress direction

traffic-type
: Specifies the traffic type

routed
: Filter only routed traffic. This parameter is not valid for management or overlaygateway interfaces

switched
: Filter only switched traffic. This parameter is not valid for management or overlay-gateway interfaces.

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

Configures an anycast address for a set of interfaces that belong to different nodes.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/49</name>
        <ipv6>
            <ipv6-config xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <address>
                    <ipv6-address>
                        <address>2002::6/64</address>
                        <anycast></anycast>
                    </ipv6-address>
                </address>
            </ipv6-config>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

address

Specifies the IPv6 address

anycast

Configures an anycast address for a set of interfaces that belong to different nodes

interface/{interface-type}/{interface-name}/ipv6/address/{ipv6-address}/eui64

Configures a global or unique local IPv6 unicast address with an automatically computed EUI-64 interface ID.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <ipv6-config xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <address>
                    <ipv6-address>
                        <address>2001:db8:12d:1300::/64</address>
                        <eui-config>
                            <eui64></eui64>
                        </eui-config>
                    </ipv6-address>
                </address>
            </ipv6-config>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

address

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

eui64

Configures the global or unique local unicast address with a 64-bit Extended Unique Identifier, using the MAC address of the interface to construct the interface ID automatically

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

Configures an explicit link-local address on an interface.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
    <name>1/0/50</name>
        <ipv6>
            <ipv6-config xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <address>
                    <link-local-config>
                        <link-local-address>::1</link-local-address>
                    </link-local-config>
                </address>
            </ipv6-config>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

link-local-address

Specifies explicit IPv6 address for the interface. The format can be xxxx.xxxx or xxxx.xxxx.xxxx.xxxx.xxxx.xxxx

interface/{interface-type}/{interface-name}/ipv6/address/use-link-local-only

Configures an automatically computed link-local address.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <ipv6-config xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <address>
                    <use-link-local-only></use-link-local-only>
                </address>
            </ipv6-config>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

use-link-local-only

Enables automatic computed link-local address

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

Configures the IPv6 DHCP Relay on a Layer 3 interface.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <interface-phy-dhcp-conf xmlns="urn:brocade.com:mgmt:brocade-dhcpv6">
                <dhcp>
                    <relay>
                        <servers>
                            <relay-ip-addr>2001:db8::12d:1300</relay-ip-addr>
                            <use-vrf>mgmt-vrf</use-vrf>
                            <interface>
                                <interface-type>tengigabitethernet</interface-type>
                                <interface-name>1/0/2</interface-name>
                            </interface>
                        </servers>
                    </relay>
                </dhcp>
            </interface-phy-dhcp-conf>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

relay-ip-addr

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-type

The type of interface, such as gigabitEthernet, TengigabitEthernet, FortygigabitEthernet, HundredgigabitEthernet, or Ve interface.

interface-name

The interface number

interface/{interface-type}/{interface-name}/ipv6/hop-by-hop-trap

Enables hop-by-hop trap on an interface.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <ipv6-phy-intf-cmds xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
                <hop-by-hop-trap></hop-by-hop-trap>
            </ipv6-phy-intf-cmds>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

hop-by-hop-tra

Enables hop-by-hop trap on an interface

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

Enables the generation of an IPv6 Internet Control Message Protocol version 6 (ICMPv6) Echo Reply message.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <icmpv6 xmlns="urn:brocade.com:mgmt:brocade-icmp">
                <echo-reply></echo-reply>
            </icmpv6>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface naem

echo-reply

Enables the generation of an IPv6 CMPv6 Echo Reply message

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

Limits the rate at which IPv6 Internet Control Message Protocol version 6 (ICMPv6) messages are sent on an IPv6 network.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <icmpv6 xmlns="urn:brocade.com:mgmt:brocade-icmp">
                <rate-limiting>1100</rate-limiting>
            </icmpv6>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

rate-limiting

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

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

Enables IPv6 Internet Control Message Protocol version 6 (ICMPv6) Redirect messages, which request that packets be sent on an alternative route.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <icmpv6 xmlns="urn:brocade.com:mgmt:brocade-icmp">
                <redirect></redirect>
            </icmpv6>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

redirect

Enables IPv6 ICMPv6 redirect messages

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

Prohibits routers from forwarding an IPv6 Internet Control Message Protocol version 6 (ICMPv6) Destination Unreachable Code 3 (port unreachable) message on a point-to-point link back onto the ingress port.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <icmpv6 xmlns="urn:brocade.com:mgmt:brocade-icmp">
                <unreachable></unreachable>
            </icmpv6>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

unreachable

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

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

Configures a maximum size for IPv6 MTU packets to be sent on an interface.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <ipv6-config xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <mtu>1600</mtu>
            </ipv6-config>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

mtu

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

interface/{interface-type}/{interface-name}/ipv6/nd/broadcast-mac-trap

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

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                <ipv6-intf-cmds>
                    <nd>
                        <broadcast-mac-trap></broadcast-mac-trap>
                    </nd>
                </ipv6-intf-cmds>
            </ipv6-nd-ra>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

broadcast-mac-trap

Enables the trap for all the IPv6 packets with broadcast mac

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

Configures the time interval after which the IPv6 Neighbor Discovery cache is deleted or refreshed.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                <ipv6-intf-cmds>
                    <nd>
                        <cache>
                            <expire>14000</expire>
                        </cache>
                    </nd>
                </ipv6-intf-cmds>
            </ipv6-nd-ra>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

expire

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

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

Configures the number of IPv6 Neighbor Discovery Neighbor Solicitation (NS) messages to be sent as part of duplicate address detection (DAD).

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                <ipv6-intf-cmds>
                    <nd>
                        <dad>
                            <attempts>3</attempts>
                            <time>2</time>
                        </dad>
                    </nd>
                </ipv6-intf-cmds>
            </ipv6-nd-ra>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

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

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

Configures the number of hops to be advertised in IPv6 Neighbor Discovery Router Advertisement (RA) messages.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                <ipv6-intf-cmds>
                    <nd>
                        <hoplimit>65</hoplimit>
                    </nd>
                </ipv6-intf-cmds>
            </ipv6-nd-ra>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

hoplimit

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

interface/{interface-type}/{interface-name}/ipv6/nd/managed-config-flag

In IPv6 Neighbor Discovery, indicates to hosts on a local link that they must use the stateful autoconfiguration feature to obtain IPv6 addresses for their interfaces.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                <ipv6-intf-cmds>
                    <nd>
                        <managed-config-flag></managed-config-flag>
                    </nd>
                </ipv6-intf-cmds>
            </ipv6-nd-ra>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

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

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

Sets the size of the maximum transmission unit (MTU) that is advertised in Neighhbor Discovery Router Advertisement (RA) messages.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                <ipv6-intf-cmds>
                    <nd>
                        <mtu>1550</mtu>
                    </nd>
                </ipv6-intf-cmds>
            </ipv6-nd-ra>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the name of the interface

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

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

Configures the interval for address resolution between IPv6 Neighbor Discovery Neighbor Solicitation (NS) messages.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                <ipv6-intf-cmds>
                    <nd>
                        <ns-interval>2</ns-interval>
                    </nd>
                </ipv6-intf-cmds>
            </ipv6-nd-ra>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

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

interface/{interface-type}/{interface-name}/ipv6/nd/other-config-flag

In IPv6 Neighbor Discovery, 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.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                <ipv6-intf-cmds>
                    <nd>
                        <other-config-flag></other-config-flag>
                    </nd>
                </ipv6-intf-cmds>
            </ipv6-nd-ra>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

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

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

Configures which IPv6 prefixes are included in IPv6 Neighbor Discovery Router Advertisement (RA) messages.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                <ipv6-intf-cmds>
                    <nd>
                        <prefix>
                            <prefix-ipv6-address>2001:db8:12d:1300::/64</prefix-ipv6-address>
                            <lifetime>
                                <no-advertise></no-advertise>
                            </lifetime>
                        </prefix>
                    </nd>
                </ipv6-intf-cmds>
            </ipv6-nd-ra>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

prefix-ipv6-address

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

no-advertise

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

Configures the maximum interval range and minimum interval at which IPv6 Neighbor Discovery Router Advertisement (RA) messages are sent.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                <ipv6-intf-cmds>
                    <nd>
                        <ra-interval>
                            <max-interval>650</max-interval>
                            <min>250</min>
                        </ra-interval>
                    </nd>
                </ipv6-intf-cmds>
            </ipv6-nd-ra>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

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

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

Configures the amount of time in IPv6 Neighbor Discovery that a router is considered a valid default router.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                <ipv6-intf-cmds>
                    <nd>
                        <ra-lifetime>2000</ra-lifetime>
                    </nd>
                </ipv6-intf-cmds>
            </ipv6-nd-ra>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

ra-lifetime

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

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

Configures the amount of time in IPv6 Neighbor Discovery that a deivce considers a remove IPv6 node reachable.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                <ipv6-intf-cmds>
                    <nd>
                        <reachable-time>1</reachable-time>
                    </nd>
                </ipv6-intf-cmds>
            </ipv6-nd-ra>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

reachable-time

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

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

Configures the time advertised between IPv6 Neighbor Discovery Neighbor Solicitation (NS) messages.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                <ipv6-intf-cmds>
                    <nd>
                        <retrans-timer>1</retrans-timer>
                    </nd>
                </ipv6-intf-cmds>
            </ipv6-nd-ra>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

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

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

Disables the sending of ICMPv6 Router Advertisement (RA) messages, including those sent in response to a solicitation as well as MTUs.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <ipv6>
            <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                <ipv6-intf-cmds>
                    <nd>
                        <suppress-ra>
                            <suppress-ra-all></suppress-ra-all>
                        </suppress-ra>
                    </nd>
                </ipv6-intf-cmds>
            </ipv6-nd-ra>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

suppress-ra

Disables the sending of ICMPv6 Router Advertisement (RA) messages

all

Disables the sending of all RA messages, including those sent in response to a solicitation

mtu

Disables the sending of MTUs in RA messages

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

Sets a specific OSPFv3 interface to active.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <active></active>
            </interface-ospfv3-conf>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

active

Sets a specific OSPFv3 interface to active

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

Enables OSPFv3 on an interface.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <interface-area>0</interface-area>
            </interface-ospfv3-conf>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

interface-area

Specifies area address in dotted decimal format or IPv6 address

interface/{interface-type}/{interface-name}/ipv6/ospf/authentication/ipsec/disable

Disables IP security (IPsec) services on an OSPFv3 interface.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <authentication>
                    <ipsec>
                        <ipsec-authentication-disable></ipsec-authentication-disable>
                    </ipsec>
                </authentication>
            </interface-ospfv3-conf>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

ipsec-authentication-disable

Disables IP security (IPsec) services on an OSPFv3 interface

interface/{interface-type}/{interface-name}/ipv6/ospf/authentication/ipsec/key-add-remove-interval

Specifies IPsec as the authentication type for an OSPFv3 interface.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <authentication>
                    <ipsec>
                        <ifc-key-add-remove-interval>350</ifc-key-add-remove-interval>
                    </ipsec>
                </authentication>
            </interface-ospfv3-conf>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

ifc-key-add-remove-interval

Specifies the OSPFv3 authentication key add-remove interval. The values can range from 0 through 14400. The default interval is 300

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

Specifies the security policy index (SPI) value for an OSPFv3 interface.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <authentication>
                    <ipsec-auth-key-config>
                        <spi>650</spi>
                        <ah>hmac-md5</ah>
                        <ah-no-encrypt></ah-no-encrypt>
                        <ah-key>abcef12345678901234fedcba098765432109876</ah-key>
                    </ipsec-auth-key-config>
                </authentication>
            </interface-ospfv3-conf>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name
: Specifies the interface name

spi
: Specifies the SPI value. The value can range from 12 through 4294967295

ah
: Specifies Authentication Header (ah) as the protocol to provide packet-level security

null
: Specifies that the ESP payload is not encrypted

hmac-md5
: Enables Hashed Message Authentication Code (HMAC) Message Digest 5 (MD5) authentication on the OSPF interface

hmac-sha1
: Enables HMAC Secure Hash Algorithm 1 (SHA-1) authentication on the OSPFvinterface

ah-no-encrypt
: Specifies the 40-character key is not encrypted upon either its entry or its display

ah-key
: Specifies the 40 hexadecimal character key

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

Enables Bidirectional Forwarding Detection (BFD) on a specific OSPFv3 interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <bfd>
                    <bfd-enable></bfd-enable>
                </bfd>
            </interface-ospfv3-conf>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

bfd-enable

Enables BFD on a specific OSPFv3 interface

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

Configures cost for a specific interface.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <cost>20</cost>
            </interface-ospfv3-conf>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

cost

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

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

Specifies the time period for which a neighbor router waits for a hello packet from the device before declaring the router down.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <link-interval-properties>
                    <dead-interval>50</dead-interval>
                </link-interval-properties>
            </interface-ospfv3-conf>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

dead-interval

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

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

Sets the length of time between the transmission of hello packets that an interface sends to neighbor routers.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <link-interval-properties>
                    <hello-interval>15</hello-interval>
                </link-interval-properties>
            </interface-ospfv3-conf>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

hello-interval

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

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

Sets the allowed jitter between HELLO packets.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <link-interval-properties>
                    <hello-jitter>20</hello-jitter>
                </link-interval-properties>
            </interface-ospfv3-conf>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

hello-jitter

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

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

Specifies the number of OSPFv3 instances running on an interface.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <instance>1</instance>
            </interface-ospfv3-conf>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

instance

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

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

Enables maximum transmission unit (MTU) match checking.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <mtu-ignore></mtu-ignore>
            </interface-ospfv3-conf>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

mtu-ignore

Enables maximum transmission unit (MTU) match checking

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

Configures network type.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <network>broadcast</network>
            </interface-ospfv3-conf>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

network

Specifies the network type

broadcast

Network type is broadcast, such as Ethernet

point-to-point

Network type is point-to-point

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

Sets a specific OSPFv3 interface to passive.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <passive></passive>
            </interface-ospfv3-conf>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

passive

Sets a specific OSPFv3 interface to passive

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

Configures priority for designated router (DR) election and backup designated routers (BDRs) on the interface you are connected to.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <priority>12</priority>
            </interface-ospfv3-conf>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

priority

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

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

Configures retransmit interval. The retransmit interval is the time between Link-State Advertisement (LSA) retransmissions to adjacent routers for a given interface.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <link-interval-properties>
                    <retransmit-interval>10</retransmit-interval>
                </link-interval-properties>
            </interface-ospfv3-conf>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

retransmit-interval

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

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

Suppresses link LSA advertisements.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <suppress-linklsa></suppress-linklsa>
            </interface-ospfv3-conf>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

suppress-linklsa

Suppresses link LSA advertisements

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

Configures transmit delay for link-update packets. The transmit delay is the estimated time required for OSPFv3 to send link-state update packets on the interface to which you are connected.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <link-interval-properties>
                    <transmit-delay>20</transmit-delay>
                </link-interval-properties>
            </interface-ospfv3-conf>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

transmit-delay

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

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

Configures the IPv6 policy route-map.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/50</name>
        <ipv6>
            <policy xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
                <route-map>
                    <ipv6-route-map-name>routemap1</ipv6-route-map-name>
                </route-map>
            </policy>
        </ipv6>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

ipv6-route-map-name

Specifies the route-map name

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

Router protocols are susceptible to rogue Router advertisements (RAs) generated by unauthorized or improperly configured devices.

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/3</name>
        <ipv6>
            <raguard>true</raguard>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

raguard

Enables RA Guard

interface/{interface-type}/{interface-name}/ipv6/vrrp-suppress-interface-ra

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

Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <ipv6>
            <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                <ipv6-intf-cmds>
                    <vrrp-suppress-interface-ra></vrrp-suppress-interface-ra>
                </ipv6-intf-cmds>
            </ipv6-nd-ra>
        </ipv6>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

vrrp-suppress-interface-ra

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

interface/{interface-type}/{interface-name}/lacp/default-up

Activates an LACP link in the absence of PDUs.

Usage

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

```
<interface xmlns=""urn:brocade.com:mgmt:brocade-interface"">
    <tengigabitethernet>
        <name>7/0/7</name>
        <lacp xmlns=""urn:brocade.com:mgmt:brocade-lacp"">
            <default-up></default-up>
        </lacp>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

default-up

Activates an LACP link in the absence of PDUs

interface/{interface-type}/{interface-name}/lacp/port-priority

Sets the priority of the physical interface for LACP.

Usage

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

```
<interface xmlns=""urn:brocade.com:mgmt:brocade-interface"">
    <tengigabitethernet>
        <name>7/0/7</name>
        <lacp xmlns=""urn:brocade.com:mgmt:brocade-lacp"">
            <std_port-priority>2000</std_port-priority>
        </lacp>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

std_port-priority

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

interface/{interface-type}/{interface-name}/lacp/timeout

Configures the timeout value used by the Link Aggregation Control Protocol (LACP) to exchange packets on an interface before invalidating a received data unit (DU).

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <lacp xmlns="urn:brocade.com:mgmt:brocade-lacp">
            <timeout>short</timeout>
        </lacp>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

timeout

Specifies the timeout value

long

Specifies that a long-timeout value of 30 seconds will be used

short

Specifies that a short-timeout value of one second will be used

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

Specifies which version of the Data Center Bridging Exchange (DCBX) protocol to use.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
            <dcbx-version>cee</dcbx-version>
        </lldp>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

dcbx-version

Specifies the version

auto

Auto-adjusts the DCBX protocol version. This is the default setting

cee

Uses the Converged Enhanced Ethernet (CEE) DCBX version.

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

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

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
            <disable></disable>
        </lldp>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

disable

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

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

Applies a Link Layer Discovery Protocol (LLDP) profile to an interface

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
            <profile>profile1</profile>
        </lldp>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

profile

Specifies the profile name

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

Configures the priority that will be advertised in the DCBX iSCSI TLV for a specified interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
            <iscsi-priority>3</iscsi-priority>
        </lldp>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

iscsi-priority

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

interface/{interface-type}/{interface-name}/long-distance-isl

Extends an ISL link up to 30 km.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <long-distance-isl>5000</long-distance-isl>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

long-distance-isl

Specifies the distance link

2000

Specifies a 2 km distant link

5000

Specifies a 5 km distant link

10000

Specifies a 10 km distant link

30000

Specifies a 30 km distant link. DCB/FCoE capabilities are not supported with this setting

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

Applies rules specified in a MAC access control list (ACL) to traffic entering or exiting an interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <mac xmlns="urn:brocade.com:mmgmt:brocade-mac-access-list">
            <access-group>
                <mac-access-list>test_02</mac-access-list>
                <mac-direction>in</mac-direction>
            </access-group>
        </mac>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

mac-access-list

Specifies the name of the standard or extended MAC access list

mac-direction

Specifies the direction

in

Specifies to filter inbound packets only

out

Specifies to filter outbound packets only

interface/{interface-type}/{interface-name}/mac-learning/disable/vlan/add

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

Usage

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

```
<interface>
    <fortygigabitethernet>
        <name>1/2/2</name>
        <mac-learning>
            <mac-learn-disable>
                <vlan>
                    <mac-learning-vlan-add>1000</mac-learning-vlan-add>
                </vlan>
            </mac-learn-disable>
        </mac-learning>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

mac-learning-vlan-add

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

interface/{interface-type}/{interface-name}/mac-learning/disable/vlan/remove

Removes a VLAN or range of VLANs to the list of VLANs for which dynamic MAC address learning is disabled.

Usage

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

```
<interface>
    <fortygigabitethernet>
        <name>1/2/2</name>
        <mac-learning>
            <mac-learn-disable>
                <vlan>
                    <mac-learning-vlan-remove>100</mac-learning-vlan-remove>
                </vlan>
            </mac-learn-disable>
        </mac-learning>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

mac-learning-vlan-remove

Removes a VLAN or range of VLANs to the list of VLANs for which dynamic MAC address learning is disabled

interface/{interface-type}/{interface-name}/mtu

Configures the size of the maximum transmission unit (MTU) on an interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <mtu>3000</mtu>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

mtu

Specifies the size of the MTU. The value can range from 1522 through 9216

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

Enables the OpenFlow mode on an interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <openflow-interface-cfg xmlns="urn:brocade.com:mgmt:brocade-openflow">
            <openflow-enable>
                <enable></enable>
            </openflow-enable>
        </openflow-interface-cfg>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

enable

Enables the OpenFlow mode on an interface

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

Creates an OpenFlow logical instance, enables a variety of options under OpenFlow logical-instance configuration mode, and also associates the logical instance with an interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <openflow-interface-cfg xmlns="urn:brocade.com:mgmt:brocade-openflow">
            <logical-instance-id>1</logical-instance-id>
        </openflow-interface-cfg>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

logical-instance-id

Specifies the logical instance number

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

Activates the Automatic Migration of Port Profiles (AMPP) port-profile configuration mode on a port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <port-profile-to-interface-associations xmlns="urn:brocade.com:mgmt:brocade-port-profile">
            <port-profile-port>
                <port-to-port-profile-domain-association>
                    <profile-domain-name>domain1</profile-domain-name>
                </port-to-port-profile-domain-association>
            </port-profile-port>
        </port-profile-to-interface-associations>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

profile-domain-name

Specifies the port-profile domain name

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

Restricts the flooding of egress BUM traffic from an AMPP port-profile port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <port-profile-port>
            <restrict-flooding-container>
                <restrict-flooding></restrict-flooding>
            </restrict-flooding-container>
        </port-profile-port>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

restrict-flooding

Restricts the flooding of egress BUM traffic from an AMPP port-profile port

interface/{interface-type}/{interface-name}/priority-tag

Toggles the priority-tagging support on a specific interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/2</name>
        <priority-tag-enable xmlns="urn:brocade.com:mgmt:brocade-qos"></priority-tag-enable>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

priority-tag-enable

Enables priority-tagging support

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

Configures the interface Class of Service (CoS) value.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
            <default-cos>3</default-cos>
        </qos>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

default-cos

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

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

Applies a CoS-to-CoS mutation quality of Service (QoS) map on an interface

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
            <cos-mutation>map1</cos-mutation>
        </qos>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

cos-mutation

Specifies the name of the CoS mutation map

interface/{interface-type}/{interface-name}/qos/drop-monitor/enable

Enables RASlog messages for various types of dropped data under QoS.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
            <drop-monitor>
                <drop-monitor-enable></drop-monitor-enable>
            </drop-monitor>
        </qos>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

drop-monitor-enable

Enables RASlog messages for various types of dropped data under QoS

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

Applies a defined DSCP-CoS map to an interface

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/2</name>
        <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
            <dscp-cos>test</dscp-cos>
        </qos>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

dscp-cos

Specifies the name of the DSCP-to-COS mutation map

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

Applies a defined DSCP mutation map to an interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
            <dscp-mutation>map4</dscp-mutation>
        </qos>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

dscp-mutation

Specifies the name of DSCP mutation map

interface/{interface-type}/{interface-name}/qos/dscp-traffic-class

Applies a defined DSCP-to-Traffic-Class map to an interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/2</name>
        <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
            <dscp-traffic-class>test</dscp-traffic-class>
        </qos>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

dscp-traffic-class

Specifies the name of the DSCP-to-Traffic-Class map

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

Activates and configures QoS flow control.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
            <flowcontrol>
                <link-level-flowcontrol>
                    <flowcontrol-tx>on</flowcontrol-tx>
                    <flowcontrol-rx>on</flowcontrol-rx>
                </link-level-flowcontrol>
            </flowcontrol>
        </qos>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

flowcontrol-tx

Activates or deactivates the transmission portion of flow control

on

Activates the transmission portion of flow control

off

Deactivates the transmission portion of flow control

flowcontrol-rx

Activates or deactivates the receiving portion of flow control

on

Activates the receiving portion of flow control

off

Deactivates the receiving portion of flow control

interface/{interface-type}/{interface-name}/qos/random-detect/traffic-class/{traffic-class-value}/red-profile-id

Maps a Random Early Discard (RED) profile to a CoS priority value for a port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
            <random-detect>
                <traffic-class>
                    <red-tc-value>3</red-tc-value>
                    <red-profile-id>2</red-profile-id>
                </traffic-class>
            </random-detect>
        </qos>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

red-tc-value

Specifies the Class of Service (COS) value. The value can range from 0 through 7

red-profile-id

Specifies the Random Error Detection value. The value can range from 1 through 384

interface/{interface-type}/{interface-name}/rmon/collection/history

Collects Ethernet group statistics for later retrieval

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <rmon xmlns="urn:brocade.com:mgmt:brocade-rmon">
            <collection>
                <history-control-entry>
                    <history-control-index>25</history-control-index>
                    <history-control-buckets-requested>10</history-control-buckets-requested>
                    <history-control-interval>2000</history-control-interval>
                    <history-control-owner>admin</history-control-owner>
                </history-control-entry>
            </collection>
        </rmon>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

history-control-index

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

history-control-buckets-requested

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

history-control-interval

Specifies the alarm sample interval in seconds. The value can range from 1 through 3600. The default value is 1800

history-control-owner

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

interface/{interface-type}/{interface-name}/rmon/collection/stats

Collects Ethernet group statistics n a specific interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <rmon xmlns="urn:brocade.com:mgmt:brocade-rmon">
            <collection>
                <ether-stats-entry>
                    <ether-stats-index>3</ether-stats-index>
                    <ether-stats-owner>owner1</ether-stats-owner>
                </ether-stats-entry>
            </collection>
        </rmon>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

ether-stats-index

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

ether-stats-owner

Specifies the identity of the owner

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

Binds a policy-map to an interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <fortygigabitethernet>
        <name>1/0/49</name>
        <service-policy xmlns="urn:brocade.com:mgmt:brocade-policer">
            <out>pmap1</out>
        </service-policy>
    </fortygigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

out

Binds policy-map to outbound traffic. Specifies the name of the policy-map

interface/{interface-type}/{interface-name}/sflow/enable

Enables sFlow on an interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <sflow xmlns="urn:brocade.com:mgmt:brocade-sflow">
            <enable></enable>
        </sflow>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

enable

Enables sFlow on the interface

interface/{interface-type}/{interface-name}/sflow/polling-interval

Configures the polling interval globally.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <sflow xmlns="urn:brocade.com:mgmt:brocade-sflow">
            <polling-interval>25</polling-interval>
        </sflow>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

polling-interval

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

interface/{interface-type}/{interface-name}/sflow/sample-rate

Sets the default sampling rate for an interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <sflow xmlns="urn:brocade.com:mgmt:brocade-sflow">
            <sample-rate>33300</sample-rate>
        </sflow>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

sample-rate

Specifies the sampling rate. The value can range from 2 through 16777215 packets

interface/{interface-type}/{interface-name}/shutdown

Disables the selected interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <shutdown></shutdown>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

shutdown

Disables the interface

interface/{interface-type}/{interface-name}/snmp/trap/link-status

Enables SNMP traps.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <snmp>
            <trap>
                <link-snmp-trap-status></link-snmp-trap-status>
            </trap>
        </snmp>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

link-snmp-trap-status

Enables SNMP traps

History

Release version	History
7.0.0	This Netconf call was introduced.

interface/{interface-type}/{interface-name}/ spanning-tree/autoedge

Enables automatic edge detection.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <autoedge></autoedge>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

autoedge

Enables automatic edge detection

interface/{interface-type}/{interface-name}/ spanning-tree/bpdu-mac

Sets the MAC address of the Bridge Protocol Data Unit (BPDU).

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <bpdu-mac>0304.0800.0700</bpdu-mac>
        </spanning-tree>
    </tengigabitethernet>
</interface>

<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ethernet>
        <name>2/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <bpdu-mac>0304.0800.0700</bpdu-mac>
        </spanning-tree>
    </ethernet>
</interface>
```

Parameters

name

Specifies the interface name

bpdu-mac

Specifies the MAC address of the Bridge Protocol Data Unit

0100.0ccc.cccd

Cisco Control Mac

0304.0800.0700

Extreme Control Mac

interface/{interface-type}/{interface-name}/spanning-tree/cost

Changes an interface's spanning-tree port path cost.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <cost>10000</cost>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

cost

Specifies the path cost for the Spanning Tree Protocol (STP) calculations. The value can range from 1 through 200000000

interface/{interface-type}/{interface-name}/ spanning-tree/edgeport

Enables the edge port on an interface to allow the interface to quickly transition to the forwarding state.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <edgeport>
                <edgeportbasic></edgeportbasic>
            </edgeport>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

edgeportbasic

Enables the edge port on an interface

interface/{interface-type}/{interface-name}/ spanning-tree/edgeport/bpdu-filter

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

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <edgeport>
                <bpdu-filter></bpdu-filter>
            </edgeport>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

bpdu-filter

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

interface/{interface-type}/{interface-name}/ spanning-tree/edgeport/bpdu-guard

Guards the port against the reception of BPDUs.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <edgeport>
                <bpdu-guard></bpdu-guard>
            </edgeport>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

bpdu-guard

Guards the port against the reception of BPDUs

interface/{interface-type}/{interface-name}/spanning-tree/guard/root

Enables the guard root to restrict which interface is allowed to be the spanning-tree root port or the path-to-the-root for the switch.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <guard>
                <root></root>
            </guard>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

root

Enables the guard root

interface/{interface-type}/{interface-name}/ spanning-tree/hello-time

Configures the hello-time in seconds on the interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <hello-time>5</hello-time>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

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.

interface/{interface-type}/{interface-name}/ spanning-tree/instance/priority

Sets restrictions for the port of particular MSTP instances.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <instance>
                <id>5</id>
                <priority>240</priority>
            </instance>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

id

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

priority

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

interface/{interface-type}/{interface-name}/ spanning-tree/instance/cost

Configures the path-cost for a port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <instance>
                <id>5</id>
                <cost>60</cost>
            </instance>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

id

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

cost

Specifies the path-cost for a port. The value can range from 1 through 20000000

interface/{interface-type}/{interface-name}/ spanning-tree/instance/restricted-role

Specifies to restrict the role of a port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <instance>
                <id>5</id>
                <restricted-role></restricted-role>
            </instance>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

id

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

restricted-role

Specifies to restrict the role of a port

interface/{interface-type}/{interface-name}/ spanning-tree/instance/restricted-tcn

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

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <instance>
                <id>5</id>
                <restricted-tcn></restricted-tcn>
            </instance>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

id

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

restricted-tcn

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

interface/{interface-type}/{interface-name}/ spanning-tree/link-type

Enables and disables the rapid transition for the Spanning Tree Protocol (STP).

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <link-type>shared</link-type>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

link-type

Enables and disables the rapid transition

point-to-point

Enables rapid transition

shared

Disables rapid transition

interface/{interface-type}/{interface-name}/ spanning-tree/peer-switch

When the Peer-Switch feature is enabled on a Cisco vPC domain, it broadcasts the same BPDUs from both vPC primary and secondary nodes to peer devices. But a VCS on a VLAG assumes that any logical interface receives only one BPDU from any of its member ports, so when it receives the two BPDUs from a Cisco vPC domain it creates a churn of VLAG mastership, and this increases the CPU load on a Extreme VDX. To avoid these problem, BDPUs received on the VLAG non-master are dropped. When the Peer-Switch functionality is enabled and the the VLAG Master is selected, BPDUs received on VLAG Non-Master are dropped unless there is a change in the status of the VLAG Master.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <peer-switch></peer-switch>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ethernet>
        <name>2/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <peer-switch></peer-switch>
        </spanning-tree>
    </ethernet>
</interface>
```

Parameters

name

Specifies the interface name

peer-switch

Enables the Peer-Switch functionality on a portchannel

interface/{interface-type}/{interface-name}/ spanning-tree/portfast

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

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <portfast>
                <portfastbasic></portfastbasic>
            </portfast>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

interface/{interface-type}/{interface-name}/ spanning-tree/portfast/bpdu-filter

Sets the Port Fast BPDU filter for the port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <portfast>
                <bpdu-filter></bpdu-filter>
            </portfast>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

bpdu-filter

Sets the Port Fast BPDU filter for the port

interface/{interface-type}/{interface-name}/ spanning-tree/portfast/bpdu-guard

Guards the port against the reception of BPDUs.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <portfast>
                <bpdu-guard></bpdu-guard>
            </portfast>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

bpdu-guard

Guards the port against the reception of BPDUs

interface/{interface-type}/{interface-name}/spanning-tree/priority

Changes an interface's spanning-tree port priority.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <priority>32</priority>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

priority

Specifies the interface priority for the spanning tree. The value can range from 0 through 240. Port priority is in increments of 16

interface/{interface-type}/{interface-name}/ spanning-tree/restricted-role

Restricts the role of the port from becoming a root port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <restricted-role></restricted-role>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

restricted-role

Restricts the role of the port from becoming a root port

interface/{interface-type}/{interface-name}/ spanning-tree/restricted-tcn

Restricts the Topology Change Notification (TCN) Bridge Protocol Data Units (BPDUs) sent on the port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <restricted-tcn></restricted-tcn>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

restricted-tcn

Restricts the Topology Change Notification

interface/{interface-type}/{interface-name}/spanning-tree/shutdown

Disables spanning tree on the interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <shutdown></shutdown>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

shutdown

Disables spanning tree on the interface

interface/{interface-type}/{interface-name}/spanning-tree/vlan

Configures the VLAN identifier for the spanning tree interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
            <vlan>
                <id>200</id>
                <cost>10000</cost>
            </vlan>
        </spanning-tree>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

id

Specifies the VLAN identifier for the spanning tree interface

cost

interface/{interface-type}/{interface-name}/speed

Sets the speed negotiation value on an Ethernet interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <speed>10000</speed>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

speed

Specifies the speed value

100

Forces the speed to 100 Mbps

1000

Forces the speed to 1 Gbps

1000-auto

Forces the speed to 1 Gbps AN (802.3 Clause 37 Auto-Negotiation)

10000

Forces the speed to 10 Gbps

auto

Allows the interface to negotiate the speed setting

interface/{interface-type}/{interface-name}/storm-control/ingress

Limits ingress traffic on a specified interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <storm-control xmlns="urn:brocade.com:mgmt:brocade-bum-storm-control">
            <ingress>
                <protocol-type>broadcast</protocol-type>
                <rate-format>limit-bps</rate-format>
                <rate-bps>100</rate-bps>
                <rate-percent>458632240</rate-percent>
                <bum-action>monitor</bum-action>
            </ingress>
        </storm-control>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

protocol-type

Specifies the protocol type

broadcast

Specifies that the command will operate on broadcast traffic only

unknown-unicast

Specifies that the command will operate on unknown-unicast traffic only

multicast

Specifies that the command will operate on multicast traffic only

rate-format

Specfies the rate format

limit-bps

Specifies that the value given to the rate parameter is in bits per second

limit-percent

Specifies that the value given to the rate parameter is in percentage of capacity of the interface

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

monitor

Specifies that, if a rate limit is reached within a five-second sampling period, a log message gets sent

shutdown

Specifies that, if a rate limit is exceeded within a five-second sampling period, the interface will be shut down

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

Puts the interface in Layer 2 mode and sets the switching characteristics of the Layer 2 interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <switchport></switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

switchport

Enables switching characteristics of the Layer 2 interface

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

Sets the Layer 2 interface as access.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/1</name>
        <switchport>
            <access>
                <accessvlan>20</accessvlan>
            </access>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

accessvlan

Specifies the VLAN ID

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

Sets the mode of the Layer 2 interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/2</name>
        <switchport>
            <mode>
                <vlan-mode>trunk-no-default-native</vlan-mode>
            </mode>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

vlan-mode

Sets the mode

access

Sets the Layer 2 interface as access. Access mode assigns the port to a VLAN

trunk

Sets the Layer 2 interface as trunk. Trunk mode makes the port linkable to other switches and routers

interface/{interface-type}/{interface-name}/switchport/mode/private-vlan

Sets the private VLAN (PVLAN) mode of the Layer 2 interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/2</name>
        <switchport>
            <mode>
                <pvlan>trunk</pvlan>
            </mode>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

pvlan

Sets the private VLAN mode

host

Sets the port mode to host (community or isolated) mode. It accepts the untagged or priority tagged packet, and the outgoing packet is untagged

promiscuous

Sets the port mode to promiscuous mode

trunk

Sets the port mode to PVLAN trunk port. This port can carry multiple VLANs. The outgoing packets carry all VLANs, except for native VLANs

trunk host

Sets the port mode to host (community or isolated) mode. The trunk operand means the outgoing packet will be tagged "accept"

trunk promiscuous

Sets the trunk to promiscuous mode

interface/{interface-type}/{interface-name}/ switchport/mode/trunk-no-default-native

Configures a port to trunk mode without the implicit creation of default native VLAN 1 in a Virtual Fabrics context.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/2</name>
        <switchport>
            <mode>
                <trunk-no-default-native></trunk-no-default-native>
            </mode>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

trunk-no-default-native

Enables a port to trunk mode

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

Enables port security on an interface port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/2</name>
        <switchport>
            <port-security></port-security>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

port-security

Enables port security

interface/{interface-type}/{interface-name}/ switchport/port-security/mac-address

Configures the MAC address option for port security on an interface port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/2</name>
        <switchport>
            <port-security>
                <port-secutiry-mac-address>
                    <mac-address>1122.2233.3322</mac-address>
                    <port-sec-vlan>1</port-sec-vlan>
                </port-secutiry-mac-address>
            </port-security>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

mac-address

Specifies the MAC address-based VLAN classifier rule used to map to a specific VLAN

port-sec-vlan

Specifies a VLAN

interface/{interface-type}/{interface-name}/ switchport/port-security/max

Configures the maximum number of MAC addresses used for port security on an interface port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/2</name>
        <switchport>
            <port-security>
                <port-sec-max>12</port-sec-max>
            </port-security>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

port-sec-max

Specifies the maximum number of secure MAC addresses. The value can range is from 1 through 8192

interface/{interface-type}/{interface-name}/ switchport/port-security/oui

Configures an Organizationally Unique Identifier (OUI) MAC address for port security on an interface port. All other addresses are ignored.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/2</name>
        <switchport>
            <port-security>
                <oui>1122.2233.3322</oui>
            </port-security>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

oui

Specifies the OUI MAC address from which to accept vendor traffic, in the format xxxx.xxxx.xxxx

interface/{interface-type}/{interface-name}/ switchport/port-security/shutdown-time

Configures the shutdown-time option for port security on an interface port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/2</name>
        <switchport>
            <port-security>
                <shutdown-time>15</shutdown-time>
            </port-security>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

shutdown-time

Specifies the amount of time to shut down the interface port, in minutes. The value can range from 1 through 15

interface/{interface-type}/{interface-name}/ switchport/port-security/sticky

Converts dynamic MAC addresses to sticky secure MAC addresses.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/2</name>
        <switchport>
            <port-security>
                <sticky>
                    <sticky-flag></sticky-flag>
                    <port-secutiry-mac-address>
                        <mac-address>1122.2255.5544</mac-address>
                        <port-sec-vlan>100</port-sec-vlan>
                    </port-secutiry-mac-address>
                </sticky>
            </port-security>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

mac-address

Specifies the MAC address-based VLAN classifier rule used to map to a specific VLAN

port-sec-vlan

Specifies a VLAN ID

interface/{interface-type}/{interface-name}/ switchport/port-security/violation

Configures the violation response options for port security on an interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/2</name>
        <switchport>
            <port-security>
                <port-sec-violation>restrict</port-sec-violation>
            </port-security>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

port-sec-violation

Specifies the violation response

restrict

Drops packets with unknown source addresses until you remove a sufficient number of secure MAC addresses to drop below the maximum value

shutdown

Puts the interface into the error-disabled state for a predetermined amount of time

interface/{interface-type}/{interface-name}/ switchport/private-vlan/association/trunk

Assigns a primary private VLAN to private VLAN trunk port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <switchport>
            <private-vlan>
                <association>
                    <trunk>
                        <primary_vlan_ID>1</primary_vlan_ID>
                        <secondary_vlan_ID>208</secondary_vlan_ID>
                    </trunk>
                </association>
            </private-vlan>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name
: Specifies the interface name

primary_vlan_ID
: Specifies the primary VLAN identification

secondary_vlan_ID
: Specifies the secondary VLAN identification

interface/{interface-type}/{interface-name}/ switchport/private-vlan/host-association

Assigns a secondary and primary VLAN pair to host port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <switchport>
            <private-vlan>
                <host-association>
                    <primary_vlan_ID>100</primary_vlan_ID>
                    <secondary_vlan_ID>210</secondary_vlan_ID>
                </host-association>
            </private-vlan>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name
: Specifies the interface name

primary_vlan_ID
: Specifies the primary VLAN identification

secondary_vlan_ID
: Specifies the secondary VLAN identification

interface/{interface-type}/{interface-name}/ switchport/private-vlan/mapping

Maps primary VLAN and secondary VLAN to a promiscuous port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <switchport>
            <private-vlan>
                <mapping>
                    <promis-pri-pvlan>5000</promis-pri-pvlan>
                    <oper>add</oper>
                    <promis-sec-pvlan-range>6000,7000</promis-sec-pvlan-range>
                </mapping>
            </private-vlan>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

promis-pri-pvlan

Specifies the primary VLAN identification

oper

Sopecifies the operation

add

Adds the secondary VLAN to the primary mapping

remove

Removes the secondary VLAN from the primary mapping

promis-sec-pvlan-range

Specifies the secondary VLAN identification

interface/{interface-type}/{interface-name}/switchport/private-vlan/trunk/allowed/vlan

Adds a VLAN to a private VLAN (PVLAN) trunk port.

Usage

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

```
<interface xmlns=""urn:brocade.com:mgmt:brocade-interface"">
    <tengigabitethernet>
        <name>2/2/21</name>
        <switchport>
            <private-vlan>
                <trunk>
                    <pvlan-tag>
                        <pvlan-tag-native-vlan></pvlan-tag-native-vlan>
                    </pvlan-tag>
                    <allowed>
                        <vlan>
                            <pvlan_all></pvlan_all>
                        </vlan>
                    </allowed>
                </trunk>
            </private-vlan>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

vlan

Adds a VLAN to a private VLAN

all

Allows all VLANs

none

Removes all VLANs except for VLAN 1

add

Adds a specified VLAN

remove

Removes the specified VLAN

except

Allows all VLANs except the specified VLAN

ctag *ctag*

Specifies an incoming C-TAG that is associated with a service or transport VF in a Virtual Fabrics context

interface/{interface-type}/{interface-name}/ switchport/private-vlan/trunk/native-vlan

Sets native private VLAN (PVLAN) characteristics of the Layer 2 trunk interface for classifying untagged traffic.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <switchport>
            <private-vlan>
                <trunk>
                    <native-vlan>120</native-vlan>
                </trunk>
            </private-vlan>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

native-vlan

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

interface/{interface-type}/{interface-name}/ switchport/trunk/allowed/vlan/rspan-vlan

Adds or removes VLANs on a Layer 2 interface in trunk mode.

Usage

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

```
<interface xmlns=""urn:brocade.com:mgmt:brocade-interface"">
    <tengigabitethernet>
        <name>2/2/21</name>
        <switchport>
            <trunk>
                <allowed>
                    <vlan>
                        <rspan-vlan>110</rspan-vlan>
                    </vlan>
                </allowed>
            </trunk>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

rspan-vlan

Selects a VLAN for Remote Switched Port Analyzer (RSPAN) traffic monitoring

interface/{interface-type}/{interface-name}/ switchport/trunk/native-vlan

Sets native VLAN characteristics as an 802.1Q VLAN, or, in a Virtual Fabrics context, as service or transport VF on a trunk port, matching tagged or untagged data traffic that does not match a classification rule.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
        <name>1/0/1</name>
        <switchport>
            <trunk>
                <native-vlan-classification>
                    <native-vlan-id>300</native-vlan-id>
                </native-vlan-classification>
            </trunk>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

native-vlan-id

Adds a VLAN to transmit and receive through the Layer 2 interface

interface/{interface-type}/{interface-name}/ switchport/trunk/native-vlan-untagged

Configures a port to accept only untagged packets, and specifies that those packets be egress untagged in a Virtual Fabrics context. The untagged packets may be classified to an 802.1Q VLAN, a service VF, or a transport VF.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
        <name>1/0/1</name>
        <switchport>
            <trunk>
                <native-vlan-untagged-config>
                    <native-vlan-id-untagged>5001</native-vlan-id-untagged>
                </native-vlan-untagged-config>
            </trunk>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

native-vlan-id-untagged

Adds a classified VLAN (VLAN ID > 4095) to transmit and receive through the Layer 2 interface

interface/{interface-type}/{interface-name}/ switchport/trunk/native-vlan-xtagged

Configures a port to accept both tagged and untagged packets, and specifies the egress tagging behavior in a Virtual Fabrics context.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
        <name>1/0/1</name>
        <switchport>
            <trunk>
                <native-vlan-xtagged-config>
                    <native-vlan-id-xtagged>5000</native-vlan-id-xtagged>
                    <native-vlan-ctag-id-xtagged>50</native-vlan-ctag-id-xtagged>
                    <native-vlan-egress-type-xtagged>tagged</native-vlan-egress-type-xtagged>
                </native-vlan-xtagged-config>
            </trunk>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name
: Specifies the interface name

native-vlan-id-xtagged
: Adds a classified VLAN (VLAN ID > 4095) to transmit and receive through the Layer 2 interface

native-vlan-ctag-id-xtagged
: Sets an optional C-TAG (802.1Q VLAN ID) for a service or transport VF (VLAN ID > 4095)

native-vlan-egress-type-xtagged
: Enables the selection of required tagging options

tagged
: Specifies packets as tagged

untagged
: Specifies packets as untagged

any
: Specifies that packets preserve their ingress encapsulation

interface/{interface-type}/{interface-name}/ switchport/trunk/tag/native-vlan

Enables tagging on native VLAN traffic.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/1</name>
        <switchport>
            <trunk>
                <tag>
                    <native-vlan></native-vlan>
                </tag>
            </trunk>
        </switchport>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies thr interface name

native-vlan

Enables tagging on native VLAN traffic

interface/{interface-type}/{interface-name}/track/enable

Enables link-state tracking (LST).

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <track>
            <track_enable></track_enable>
        </track>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

track_enable

Enables link-state tracking

interface/{interface-type}/{interface-name}/track/interface

Configures link-state tracking (LST) for an interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <track>
            <interface>
                <track-interface-type>ethernet</track-interface-type>
                <track-interface-name>1/0/11</track-interface-name>
            </interface>
        </track>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

track-interface-type

Specifies a physical interface type

track-interface-name

Specifies the physical interface name in the format rbridge-id/slot/port

interface/{interface-type}/{interface-name}/track/min-link

Specifies the minimum number of available uplinks below which LST shuts down the downlinks.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <track>
            <min-link>1</min-link>
        </track>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

min-link

Specifies the minimum number of available uplinks below which LST shuts down the downlinks.The value can range from 1 through 24

interface/{interface-type}/{interface-name}/tunable-optics

Assigns channels to tunable optic interfaces (T-SFP+) for specific wavelengths.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <tunable-optics>
            <sfpp>
                <channel>5</channel>
            </sfpp>
        </tunable-optics>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

channel

Specifies the channel number

History

Release version	History
7.0.0	This Netconf call was introduced.

interface/{interface-type}/{interface-name}/tunnel

Activates IEEE BPDU packets.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <tunnel xmlns=""urn:brocade.com:mgmt:brocade-xstp"">
            <tagged-ieee-bpdu></tagged-ieee-bpdu>
        </tunnel>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

tagged-ieee-bpdu

Activates IEEE BPDU packets

interface/{interface-type}/{interface-name}/udld/enable

Enables the Unidirectional Link Detection (UDLD) protocol on an interface.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <udld xmlns="urn:brocade.com:mgmt:brocade-udld">
            <udld-enable></udld-enable>
        </udld>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

udld-enable

interface/{interface-type}/{interface-name}/vlan/classifier/activate/group

Activates a VLAN classifier group.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>22/0/10</name>
        <vlan xmlns="urn:brocade.com:mgmt:brocade-vlan">
            <classifier>
                <activate>
                    <group>
                        <groupid>1</groupid>
                        <vlan-name>vlan</vlan-name>
                        <vlan>2</vlan>
                    </group>
                </activate>
            </classifier>
        </vlan>
    <tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

groupid

Specifies which VLAN classifier group to activate. The value can range from 1 through 16

vlan

Specifies the VLAN interface to activate

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

Configures any port as a VRF port.

Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <tengigabitethernet>
        <name>1/0/5</name>
        <vrf>
            <forwarding>vrf1</forwarding>
        </vrf>
    </tengigabitethernet>
</interface>
```

Parameters

name

Specifies the interface name

forwarding

Specifies the name of the VRF option for the port

interface/ve

Configures a virtual Ethernet (VE) interface.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <ve>
            <gve-name>10</gve-name>
        </ve>
    </interface>
</interface-vlan>
```

Parameters

gve-name

Specifies the corresponding VLAN interface

interface/ve/{vlan-id}/attach/rbridge-id

Assigns a range of RBridge IDs to the global VE interface.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <ve>
            <gve-name>10</gve-name>
            <attach xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
                <rbridge-id>
                    <rb-add>1-2</rb-add>
                </rbridge-id>
            </attach>
        </ve>
    </interface>
</interface-vlan>
```

Parameters

gve-name

Specifies the corresponding VLAN interface

rb-add

Specifies a range of RBridge IDs to attach to the VE interface, up to a maximum of four RBridge IDs. (You can also specify a single RBridge ID.) Ranges can be specified by hyphens, separated by commas, or contain a mixture of both

interface/ve/{vlan-id}/ip/fabric-virtual-gateway

Enables IPv4 Fabric-Virtual-Gateway configurations, for use with VRF address family IPv4 unicast.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <ve>
            <gve-name>10</gve-name>
            <ip>
                <ip-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
                    <ip-gw-id>1</ip-gw-id>
                    <enable></enable>
                </ip-anycast-gateway>
            </ip>
        </ve>
    </interface>
</interface-vlan>
```

Parameters

gve-name

Specifies the corresponding VLAN interface

ip-gw-id

Specifies the gateway id

enable

Enables IPv4 Fabric-Virtual-Gateway configurations

interface/ve/{vlan-id}/ip/fabric-virtual-gateway/gateway-address

Configures the gateway IP address for IPv4 or IPv6 Fabric-Virtual-Gateway sessions.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <ve>
            <gve-name>10</gve-name>
            <ip>
                <ip-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
                    <ip-gw-id>1</ip-gw-id>
                    <ipv4-gateway-address>1.1.1.1/24</ipv4-gateway-address>
                </ip-anycast-gateway>
            </ip>
        </ve>
    </interface>
</interface-vlan>
```

Parameters

gve-name

Specifies the corresponding VLAN interface

ip-gw-id

Specifies the gateway id

ipv4-gateway-address

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

interface/ve/{vlan-id}/ip/fabric-virtual-gateway/gratuitous-arp/timer

Configures the global gratuitous ARP timer in VCS.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <ve>
            <gve-name>10</gve-name>
            <ip>
                <ip-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
                    <ip-gw-id>1</ip-gw-id>
                    <gratuitous-arp>
                        <gve-timer>3</gve-timer>
                    </gratuitous-arp>
                </ip-anycast-gateway>
            </ip>
        </ve>
    </interface>
</interface-vlan>
```

Parameters

gve-name

Specifies the corresponding VLAN interface

ip-gw-id

Specifies the gateway id

gve-timer

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

interface/ve/{vlan-id}/ip/fabric-virtual-gateway/hold-time

Configures the duration for which the Fabric-Virtual-Gateway session will remain idle before activating the configuration on the system.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <ve>
            <gve-name>10</gve-name>
            <ip>
                <ip-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
                    <ip-gw-id>1</ip-gw-id>
                    <hold-time>5</hold-time>
                </ip-anycast-gateway>
            </ip>
        </ve>
    </interface>
</interface-vlan>
```

Parameters

gve-name

Specifies the corresponding VLAN interface

ip-gw-id

Specifies the gateway id

hold-time

Specifies the hold time in seconds

interface/ve/{vlan-id}/ip/fabric-virtual-gateway/load-balancing-disable

Disables load balancing globally.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <ve>
            <gve-name>10</gve-name>
            <ip>
                <ip-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
                    <ip-gw-id>1</ip-gw-id>
                    <load-balancing-disable></load-balancing-disable>
                </ip-anycast-gateway>
            </ip>
        </ve>
    </interface>
</interface-vlan>
```

Parameters

gve-name

Specifies the corresponding VLAN interface

ip-gw-id

Specifies the gateway id

load-balancing-disable

Disables load balancing globally

interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway

Enables IPv6 Fabric-Virtual-Gateway configurations.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <ve>
            <gve-name>10</gve-name>
            <ipv6>
                <ipv6-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
                    <ipv6-gw-id>1</ipv6-gw-id>
                    <enable></enable>
                </ipv6-anycast-gateway>
            </ipv6>
        </ve>
    </interface>
</interface-vlan>
```

Parameters

gve-name

Specifies the corresponding VLAN interface

ipv6-gw-id

Specifies the gateway id

enable

Enables IPv6 Fabric-Virtual-Gateway configurations

interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway/gateway-address

Configures the gateway IP address for IPv6 Fabric-Virtual-Gateway sessions.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <ve>
            <gve-name>10</gve-name>
            <ipv6>
                <ipv6-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
                    <ipv6-gw-id>1</ipv6-gw-id>
                    <ipv6-gateway-address>
                        <ipv6-gw-addr>2001:384d::284:38/24</ipv6-gw-addr>
                    </ipv6-gateway-address>
                </ipv6-anycast-gateway>
            </ipv6>
        </ve>
    </interface>
</interface-vlan>
```

Parameters

gve-name

Specifies the corresponding VLAN interface

ipv6-gw-id

Specifies the gateway id

ipv6-gw-addr

Specifies the IPv6 address in the format x:x:x:x::x/L

interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway/gratuitous-arp/timer

Configures the global gratuitous ARP timer in VCS.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <ve>
            <gve-name>10</gve-name>
            <ipv6>
                <ipv6-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
                    <ipv6-gw-id>1</ipv6-gw-id>
                    <gratuitous-arp>
                        <gve-timer>5</gve-timer>
                    </gratuitous-arp>
                </ipv6-anycast-gateway>
            </ipv6>
        </ve>
    </interface>
</interface-vlan>
```

Parameters

gve-name

Specifies the corresponding VLAN interface

ipv6-gw-id

Specifies the gateway id

gve-timer

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

interface/vlan

Allows the user to create 802.1Q VLANs, as well as service or transport VFs in a Virtual Fabrics context.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

interface/vlan/{vlan-number}/ip/arp/inspection

Enables dynamic ARP inspection (DAI) on a VLAN.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>1</name>
            <ip>
                <arp xmlns="urn:brocade.com:mgmt:brocade-dai">
                    <inspection>
                        <trust></trust>
                    </inspection>
                </arp>
            </ip>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the interface name

trust

Enables dynamic ARP inspection (DAI) on a VLAN

interface/vlan/{vlan-number}/ip/arp/inspection/filter

Applies an address resolution protocol (ARP) access list (ACL) to a VLAN, which is one of the steps implementing dynamic ARP inspection (DAI) on a VLAN.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ip>
                <arp xmlns="urn:brocade.com:mgmt:brocade-dai">
                    <inspection>
                        <filter>
                            <acl-name>acl1</acl-name>
                        </filter>
                    </inspection>
                </arp>
            </ip>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

acl-name

Specifies which ACL is applied to the VLAN

interface/vlan/{vlan-number}/ip/arp/inspection/logging/acl-match

Specifies whether or not to enable dynamic ARP inspection (DAI) logging.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ip>
                <arp xmlns="urn:brocade.com:mgmt:brocade-dai">
                    <inspection>
                        <logging>
                            <acl-match>matchlog</acl-match>
                        </logging>
                    </inspection>
                </arp>
            </ip>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

acl-match

matchlog

Enables DAI logging

none

Disables DAI logging

interface/vlan/{vlan-number}/ip/igmp/snooping/enable

Enables Internet Group Management Protocol (IGMP) snooping for a specific VLAN interface.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ip>
                <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping">
                    <snooping>
                        <enable></enable>
                    </snooping>
                </igmp>
            </ip>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

enable

Enables Internet Group Management Protocol (IGMP) snooping for a specific VLAN interface

interface/vlan/{vlan-number}/ip/igmp/snooping/fast-leave

Enables Internet Group Management Protocol (IGMP) snooping fast-leave processing for a VLAN. This allows the removal of an interface from the forwarding table without sending out group-specific queries to the interface.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ip>
                <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping">
                    <snooping>
                        <fast-leave></fast-leave>
                    </snooping>
                </igmp>
            </ip>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

fast-leave

Enables Internet Group Management Protocol (IGMP) snooping fast-leave processing for a VLAN

interface/vlan/{vlan-number}/ip/igmp/snooping/mrouter

Configures a VLAN port member to be a multicast router interface. A multicast router interface faces toward a multicast router or other Internet Group Management Protocol (IGMP) querier.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ip>
                <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping">
                    <snooping>
                        <mrouter>
                            <interface>
                                <if-type>tengigabitethernet</if-type>
                                <value>1/0/5</value>
                            </interface>
                        </mrouter>
                    </snooping>
                </igmp>
            </ip>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

if-type

Specifies an interface type

value

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

interface/vlan/{vlan-number}/ip/igmp/snooping/querier

Activates the Internet Group Management Protocol (IGMP) snooping querier on a VLAN.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ip>
                <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping">
                    <snooping>
                        <querier>
                            <qenable></qenable>
                        </querier>
                    </snooping>
                </igmp>
            </ip>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

qenable

Activates the Internet Group Management Protocol (IGMP) snooping querier on a VLAN

interface/vlan/{vlan-number}/ip/igmp/snooping/restrict-unknown-multicast

Activates the Internet Group Management Protocol (IGMP) snooping hello-based mrouter detection functionality.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ip>
                <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping">
                    <snooping>
                        <restrict-unknown-multicast></restrict-unknown-multicast>
                    </snooping>
                </igmp>
            </ip>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

restrict-unknown-multicast

Activates the Internet Group Management Protocol (IGMP) snooping hello-based mrouter detection functionality

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

Configures the static group membership entries for a specific interface.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>1</name>
            <ip>
                <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping">
                    <static-group>
                        <mcast-address>225.1.1.1</mcast-address>
                        <interface>interface</interface>
                        <if-type>tengigabitethernet</if-type>
                        <value>1/0/5</value>
                    </static-group>
                </igmp>
            </ip>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the interface naem

mcast-address

Specifies the group address

if-type

Specifies the interface type

value

Specifies the interface name

interface/vlan/{vlan-number}/ipv6/mld/last-member-query-count

Configures the IPv6 MLDv1 snooping last-member query count on a specific VLAN interface.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ipv6>
                <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
                    <last-member-query-count>3</last-member-query-count>
                </mldVlan>
            </ipv6>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

last-member-query-count

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

interface/vlan/{vlan-number}/ipv6/mld/last-member-query-interval

Configures the IPv6 MLDv1 snooping last-member query interval on a specific VLAN interface.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ipv6>
                <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
                    <last-member-query-interval>1100</last-member-query-interval>
                </mldVlan>
            </ipv6>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

last-member-query-interval

Specifies the last-member query interval value. The value can range from 100 through 2500 milliseconds. The default value is 1000 milliseconds

interface/vlan/{vlan-number}/ipv6/mld/query-interval

Configures the maximum interval for IPv6 MLDv1 snooping queries for a specific VLAN interface.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ipv6>
                <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
                    <query-interval>130</query-interval>
                </mldVlan>
            </ipv6>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

query-interval

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

interface/vlan/{vlan-number}/ipv6/mld/query-max-response-time

Configures the maximum response time for IPv6 MLDv1 snooping queries for a specific VLAN interface.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ipv6>
                <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
                    <query-max-response-time>15</query-max-response-time>
                </mldVlan>
            </ipv6>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

query-max-response-time

Specifies the query max response time. The value can rangefrom 1 through 25 seconds. The default value is 10 seconds

interface/vlan/{vlan-number}/ipv6/mld/snooping/enable

Enables IPv6 MLDv1 Layer 2 snooping globally or on a specific VLAN.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ipv6>
                <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
                    <snooping>
                        <enable></enable>
                    </snooping>
                </mldVlan>
            </ipv6>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

enable

Enables IPv6 MLDv1 Layer 2 snooping globally or on a specific VLAN

interface/vlan/{vlan-number}/ipv6/mld/snooping/fast-leave

Configures the immediate-leave feature for the groups on a specific VLAN.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ipv6>
                <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
                    <snooping>
                        <fast-leave></fast-leave>
                    </snooping>
                </mldVlan>
            </ipv6>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

fast-leave

Enabels the immediate-leave feature for the groups on a specific VLAN

interface/vlan/{vlan-number}/ipv6/mld/snooping/mrouter

Configures a VLAN port member to be a multicast router (mrouter) port.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ipv6>
                <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
                    <snooping>
                        <mrouter>
                            <interface>
                                <if-type>TenGigabitEthernet</if-type>
                                <value>1/0/5</value>
                            </interface>
                        </mrouter>
                    </snooping>
                </mldVlan>
            </ipv6>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

if-type

Specifies the interface type

value

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

interface/vlan/{vlan-number}/ipv6/mld/snooping/querier

Activates IPv6 MLDv1 Layer 2 multicast snooping querier functionality for a VLAN.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ipv6>
                <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
                    <snooping>
                        <querier>
                            <qenable></qenable>
                        </querier>
                    </snooping>
                </mldVlan>
            </ipv6>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

enable

Activates IPv6 MLDv1 Layer 2 multicast snooping querier functionality for a VLAN

interface/vlan/{vlan-number}/ipv6/mld/snooping/restrict-unknown-multicast-vlan

Reactivates on a VLAN the flooding of unregistered multicast data traffic on IPv6 MLDv1 snooping-enabled VLANs.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ipv6>
                <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
                    <snooping>
                        <restrict-unknown-multicast-vlan></restrict-unknown-multicast-vlan>
                    </snooping>
                </mldVlan>
            </ipv6>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

restrict-unknown-multicast-vlan

eactivates on a VLAN the flooding of unregistered multicast data traffic on IPv6 MLDv1 snooping-enabled VLANs

interface/vlan/{vlan-number}/ipv6/mld/snooping/robustness-variable

Configures a value to compensate for packet loss in congested networks.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ipv6>
                <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
                    <snooping>
                        <robustness-variable>3</robustness-variable>
                    </snooping>
                </mldVlan>
            </ipv6>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

robustness-variable

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

interface/vlan/{vlan-number}/ipv6/mld/startup-query-count

Configures the IPv6 MLDv1 number of queries that are separated by the startup query interval.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ipv6>
                <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
                    <startup-query-count>2</startup-query-count>
                </mldVlan>
            </ipv6>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

startup-query-count

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

interface/vlan/{vlan-number}/ipv6/mld/startup-query-interval

Configures the IPv6 MLDv1 startup query interval.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <ipv6>
                <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
                    <startup-query-interval>2</startup-query-interval>
                </mldVlan>
            </ipv6>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

startup-query-interval

Specifies the startup query interval. The value can range from 1 through 450. The default value is 1.

interface/vlan/{vlan-number}/ipv6/mld/static-group

Configures IPv6 MLDv1 Layer 2 multicast static IPv6 groups on an interface for a VLAN.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2000</name>
            <ipv6>
                <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
                    <static-group>
                        <mcast-address>ff1e::1</mcast-address>
                        <interface>interface</interface>
                        <if-type>FortyGigabitEthernet</if-type>
                        <value>1/2/1</value>
                    </static-group>
                </mldVlan>
            </ipv6>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

mcast-address

Spoecifies amulticast address to be joined, in the format xxxx:xxxx/ml, xxxx:xxxx::/ml

interface

Ethernet or port-channel interface

if-type

Specifies the interface type

value

Specifies the interface name

interface/vlan/{vlan-number}/name

Assigns a descriptive name to a VLAN

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>1</name>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the characters of the name. The string can be between 1 and 32 characters

interface/vlan/{vlan-number}/private-vlan

Configures a VLAN as a private VLAN (PVLAN).

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>200</name>
            <private-vlan>
                <pvlan-type-leaf>primary</pvlan-type-leaf>
            </private-vlan>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the interface name

pvlan-type-leaf

Specifies the private VLAN type

isolated

The PVLAN is configured as an Isolated VLAN

community

The PVLAN is configured as a Community VLAN

primary

The PVLAN is configured as a Primary VLAN

interface/vlan/{vlan-number}/private-vlan/association

Associates a secondary VLAN to a primary VLAN.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>5000</name>
            <private-vlan>
                <association>
                    <sec-assoc-add>7000</sec-assoc-add>
                </association>
            </private-vlan>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

sec-assoc-add

Adds the association

interface/vlan/{vlan-number}/rspan-vlan

Configures the VLAN to support RSPAN (Remote Switched Port Analyzer) traffic analysis.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>2500</name>
            <remote-span xmlns="urn:brocade.com:mgmt:brocade-span"></remote-span>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

interface/vlan/{vlan-number}/suppress-arp

Enables address-resolution protocol (ARP)-suppression on the current VLAN. ARP suppression can lessen ARP-related traffic within an IP Fabric.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>1</name>
            <suppress-arp xmlns="urn:brocade.com:mgmt:brocade-arp">
                <suppress-arp-enable></suppress-arp-enable>
            </suppress-arp>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

suppress-arp-enable

Enables ARP-suppression on the current VLAN

History

Release version	History
7.0.0	This Netconf call was introduced.

interface/vlan/{vlan-number}/suppress-nd

Enables neighbor-discovery (ND) suppression on the current VLAN. ND suppression can lessen the ND amount of control traffic within an IP Fabric.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>1</name>
            <suppress-nd xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                <suppress-nd-enable></suppress-nd-enable>
            </suppress-nd>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN interface to configure. The value can range from 1 through 8191

suppress-nd-enable

Enables ND suppression on the current VLAN

History

Release version	History
7.0.0	This Netconf call was introduced.

interface/vlan/{vlan-number}/transport-service

In a Virtual Fabrics context, associates a service VF with a trunk port interface as a transport VF.

Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface>
        <vlan>
            <name>6011</name>
            <transport-service>21</transport-service>
        </vlan>
    </interface>
</interface-vlan>
```

Parameters

name

Specifies the VLAN number

transport-service

Specifies the transport LAN service ID. The value can range from 1 through 1000

isns

Enables Internet Storage Name Services (iSNS) configuration mode, providing a variety of configuration options.

Usage

```
<isns xmlns=""urn:brocade.com:mgmt:brocade-isns"">
         <isns-vrf>
            <isns-vrf-instance>1</isns-vrf-instance>
            <isns-ipaddress>0.0.0.0</isns-ipaddress>
            <esi-timeout>120</esi-timeout>
         </isns-vrf>
      </isns>
```

Parameters

isns-vrf-instance

Specifies the VRF forwarding instance ID.

isns-ipaddress

Specifies the IP address of the VRF instance.

esi-timeout

Specifies the VRF instance entity status inquiry (ESI) timeout.

History

Release version	History
7.1.0	This NETCONF call was introduced.

isns/vrf-forwarding

Configures discovery domain parameters.

Usage

```
<isns xmlns=""urn:brocade.com:mgmt:brocade-isns"">
        <isns-vrf>
           <isns-vrf-instance>1</isns-vrf-instance>
       </isns-vrf>
     </isns>
```

Parameters

isns-vrf-instance

Specifies the VRF forwarding instance ID. The supported value is 1.

NOTE

This NETCONF call does not support the delete operation.

History

Release version	History
7.1.0	This NETCONF call was introduced.

isns/vrf-forwarding/discovery-domain

Configures the discovery domain parameters.

Usage

```
<isns xmlns="urn:brocade.com:mgmt:brocade-isns">
         <isns-vrf>
            <isns-vrf-instance>1</isns-vrf-instance>
            <isns-ipaddress>0.0.0.0</isns-ipaddress>
            <esi-timeout>170</esi-timeout>
            <isns-discovery-domain-set>
               <isns-discovery-domain-set-name>ddt</isns-discovery-domain-set-name>
               <isns-dds-discovery-domain>test</isns-dds-discovery-domain>
            </isns-discovery-domain-set>
         </isns-vrf>
      </isns>
```

Parameters

isns-vrf-instance

Specifies the VRF forwarding instance ID.

isns-discovery-domain-name

Specifies the discovery domain name.

History

Release version	History
7.1.0	This NETCONF call was introduced.

isns/vrf-forwarding/discovery-domain-set

Configures discovery domain set parameters.

Usage

```
<isns xmlns=""urn:brocade.com:mgmt:brocade-isns"">
   <isns-vrf>
     <isns-vrf-instance>1</isns-vrf-instance>
      <isns-discovery-domain-set>
       <isns-discovery-domain-set-name>wdfr</isns-discovery-domain-set-name>
     </isns-discovery-domain-set>
   </isns-vrf>
</isns>
```

Parameters

isns-vrf-instance

Specifies VRF forwarding instance ID.

isns-discovery-domain-set-name

Specifies the discovery domain set name.

History

Release version	History
7.1.0	This NETCONF call was introduced.

isns/vrf-forwarding/discovery-domain/isns-device

Configures an Internet Storage Name Services (iSNS) device for a discovery domain.

Usage

```
<isns xmlns=""urn:brocade.com:mgmt:brocade-isns"">
 <isns-vrf>
  <isns-vrf-instance>1</isns-vrf-instance>
   <isns-discovery-domain>
   <isns-discovery-domain-name>DD1</isns-discovery-domain-name>
    <isns-device>ISNSdevicename</isns-device>
   </isns-discovery-domain>
 </isns-vrf>
</isns>
```

Parameters

isns-vrf-instance

Specifies the VRF forwarding instance ID.

isns-discovery-domain-name

Specifies the discovery domain name.

isns-device

Specifies the iSNS device.

History

Release version	History
7.1.0	This NETCONF call was introduced.

isns/vrf-forwarding/discovery-domain-set/discovery-domain

Configures the Internet Storage Name Services (iSNS) discovery domain for the discovery domain set.

Usage

```
<isns xmlns=""urn:brocade.com:mgmt:brocade-isns"">
   <isns-vrf>
    <isns-vrf-instance>1</isns-vrf-instance>
     <isns-discovery-domain-set>
     <isns-discovery-domain-set-name>wdfr</isns-discovery-domain-set-name>
      <isns-discovery-domain-set-enable></isns-discovery-domain-set-enable>
     </isns-discovery-domain-set>
   </isns-vrf>
</isns>
```

Parameters

isns-vrf-instance

Specifies the VRF forwarding instance ID.

isns-discovery-domain-set-name

Specifies a discovery domain set name.

isns-discovery-domain-set-enable

Enables the Internet Storage Name Services (iSNS) discovery domain for the discovery domain set.

History

Release version	History
7.1.0	This NETCONF call was introduced.

isns/vrf-forwarding/discovery-domain-set/enable

Enables the discovery domain set.

Usage

```
<isns xmlns=""urn:brocade.com:mgmt:brocade-isns"">
 <isns-vrf>
  <isns-vrf-instance>1</isns-vrf-instance>
   <isns-discovery-domain-set>
    <isns-discovery-domain-set-name> DDSET1</isns-discovery-domain-set-name>
     <isns-discovery-domain-set-enable></isns-discovery-domain-set-enable>
    </isns-discovery-domain-set>
   </isns-vrf>
 </isns>
```

Parameters

isns-vrf-instance

Specifies the VRF forwarding instance ID.

isns-discovery-domain-set-name

Specifies the discovery domain set name.

History

Release version	History
7.1.0	This NETCONF call was introduced.

isns/vrf-forwarding/esi-timeout

Configures the Internet Storage Name Services (iSNS) VRF forwarding entity status inquiry (ESI) timeout.

Usage

```
<isns xmlns=""urn:brocade.com:mgmt:brocade-isns"">
        <isns-vrf>
           <isns-vrf-instance>1</isns-vrf-instance>
           <esi-timeout>120</esi-timeout>
        </isns-vrf>
     </isns>
```

Parameters

isns-vrf-instance

Specifies the VRF instance.

esi-timeout

Specifies the timeout value for iSNS ESI.

History

Release version	History
7.1.0	This NETCONF call was introduced.

isns/vrf-forwarding/isns-ipaddress

Configures the Internet Storage Name Services (iSNS) VRF forwarding IP address.

Usage

```
<isns xmlns=""urn:brocade.com:mgmt:brocade-isns"">
        <isns-vrf>
           <isns-vrf-instance>1</isns-vrf-instance>
           <isns-ipaddress>120.0.0.100</isns-ipaddress>
          </isns-vrf>
     </isns>
```

Parameters

isns-vrf-instance

Specifies the VRF instance.

isns-ipaddress

Specifies the IP address for iSNS VRF forwarding.

History

Release version	History
7.1.0	This NETCONF call was introduced.

ip/access-list/extended

Configures extended IP access list.

Usage

```
<ip-acl xmlns="urn:brocade.com:mgmt:brocade-ip-access-list">
    <ip>
        <access-list>
            <extended>
                <name>acl5</name>
            </extended>
        </access-list>
    </ip>
</ip-acl>
```

Parameters

name

Access list name

ip/access-list/extended/{acl-name}/seq

Configures the sequence number.

Usage

```
<ip-acl xmlns="urn:brocade.com:mgmt:brocade-ip-access-list">
    <ip>
        <access-list>
            <extended>
                <name>acl5</name>
                <hide-ip-acl-ext>
                    <seq>
                        <seq-id>14</seq-id>
                        <action>deny</action>
                        <protocol-type>ip</protocol-type>
                        <src-host-any-sip>any</src-host-any-sip>
                        <dst-host-any-dip>host</dst-host-any-dip>
                        <dst-host-ip>1.1.1.1</dst-host-ip>
                        <vlan>1</vlan>
                        <count></count>
                        <log></log>
                    </seq>
                </hide-ip-acl-ext>
            </extended>
        </access-list>
    </ip>
</ip-acl>
```

Parameters

name

Access list name

seq-id

Specifies the sequence number for the rule

action

Specifies the action to be performed. The following actions can be performed.

deny

Drop traffic

hard-drop

Force drop traffic

permit

Allow traffic

protocol-type

The type of protocol used

src-host-any-sip

Specifies any source host IP address

dst-host-any-dip

Specifies any destination host IP address

dst-host-ip

Specifies the destination host IP address

vlan

VLAN interface number

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.

ip/access-list/standard

Configuresa standard IP Access list.

Usage

```
<ip-acl xmlns="urn:brocade.com:mgmt:brocade-ip-access-list">
    <ip>
        <access-list>
            <standard>
                <name>acl20</name>
            </standard>
        </access-list>
    </ip>
</ip-acl>
```

Parameters

name

Access list name

ip/access-list/standard/{acl-name}/seq

Configures sequence number.

Usage

```
<ip-acl xmlns="urn:brocade.com:mgmt:brocade-ip-access-list">
    <ip>
        <access-list>
            <standard>
                <name>acl20</name>
                <hide-ip-acl-std>
                    <seq>
                        <seq-id>20</seq-id>
                        <action>permit</action>
                        <src-host-any-sip>host</src-host-any-sip>
                        <src-host-ip>1.1.1.1</src-host-ip>
                        <count></count>
                        <log></log>
                    </seq>
                </hide-ip-acl-std>
            </standard>
        </access-list>
    </ip>
</ip-acl>
```

Parameters

name
: Access list name

seq-id
: Specifies the sequence number for the rule

action
: Specifies the action to be performed. The following actions can be performed.

  deny
  : Drop traffic

  hard-drop
  : Force drop traffic

  permit
  : Allow 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.

ip/dns/domain-name

Configures domain name.

Usage

```
<ip xmlns="urn:brocade.com:mgmt:brocade-common-def">
    <dns xmlns="urn:brocade.com:mgmt:brocade-ip-administration">
        <dom-name>
            <domain-name>mydomain</domain-name>
        </dom-name>
    </dns>
</ip>
```

Parameters

domain-name

Specifies the domain name

ip/dns/name-server

Configures name server parameters.

Usage

```
<ip xmlns="urn:brocade.com:mgmt:brocade-common-def">
    <dns xmlns="urn:brocade.com:mgmt:brocade-ip-administration">
        <name-server>
            <name-server-ip>1.1.1.1</name-server-ip>
        </name-server>
    </dns>
</ip>
```

Parameters

name-server-ip

The IPv4 or IPv6 address for name server

ip/igmp

Enables layer2 Internet Group Management Protocol.

Usage

```
<igmp-snooping xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping">
    <ip>
        <igmp>
            <snooping>
                <enable></enable>
            </snooping>
        </igmp>
    </ip>
</igmp-snooping>
```

Parameters

enable

Enables IGMP snooping

ip/mtu

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

Usage

```
<ip xmlns="urn:brocade.com:mgmt:brocade-ip-access-list" xmlns:y="http://brocade.com/ns/rest" y:self="/
rest/config/running/ip">
    <mtu>9011</mtu>
</ip>
```

Parameters

number

Specifies the IP MTU value. The range is from 1300 to 9018 bytes.

History

Release version	History
7.0.1	This Netconf call was introduced.

ipv6/access-list/extended

Configure IPv6 extended access list.

Usage

```
<ipv6-acl xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list">
    <ipv6>
        <access-list>
            <extended>
                <name>acl14</name>
            </extended>
        </access-list>
    </ipv6>
</ipv6-acl>
```

Parameters

name

Access list name

ipv6/access-list/extended/{acl-name}/seq

Configures the sequence number.

Usage

```
<ipv6-acl xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list">
    <ipv6>
        <access-list>
            <extended>
                <name>acl14</name>
                <seq>
                    <seq-id>14</seq-id>
                    <action>deny</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>2004:384d::24:23</dst-host-ip>
                    <vlan>1</vlan>
                    <count></count>
                    <log></log>
                </seq>
            </extended>
        </access-list>
    </ipv6>
</ipv6-acl>
```

Parameters

name
: Access list name

seq-id
: Specifies the sequence number for the rule

action
: Specifies the action to be performed. The following actions can be performed.

  deny
  : Drop traffic

  hard-drop
  : Force drop traffic

  permit
  : Allow traffic

protocol-type
: The type of protocol used

src-host-any-sip
: Specifies any source host IP address

dst-host-any-dip
: Specifies any destination host IP address

dst-host-ip
: Specifies the destination host IP address

vlan

VLAN interface number

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.

ip/access-list/standard

Configures IPv6 standard access list.

Usage

```
<ipv6-acl xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list">
    <ipv6>
        <access-list>
            <standard>
                <name>acl24</name>
            </standard>
        </access-list>
    </ipv6>
</ipv6-acl>
```

Parameters

name

Access list name

ipv6/access-list/standard/{acl-name}/seq

Configures the sequence number.

Usage

```
<ipv6-acl xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list">
    <ipv6>
        <access-list>
            <standard>
                <name>acl24</name>
                <seq>
                    <seq-id>24</seq-id>
                    <action>permit</action>
                    <src-host-any-sip>any</src-host-any-sip>
                    <count></count>
                    <log></log>
                </seq>
            </standard>
        </access-list>
    </ipv6>
</ipv6-acl>
```

Parameters

name

Access list name

seq-id

Specifies the sequence number for the rule

action

Specifies the action to be performed. The following actions can be performed.

deny

Drop traffic

hard-drop

Force drop traffic

permit

Allow traffic

src-host-any-sip

Specifies any 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.

ipv6/mld

Enables Multicast Listener Discovery (MLD) Snooping.

Usage

```
<mld-snooping xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
    <ipv6>
        <mld>
            <snooping>
                <enable></enable>
            </snooping>
        </mld>
    </ipv6>
</mld-snooping>
```

Parameters

enable

Enables MLD Snooping

ipv6/mtu

Sets the IPv6 MTU value to all interfaces of the cluster.

Usage

```
<ipv6 xmlns="urn:brocade.com:mgmt:brocade-mld-snooping" xmlns:y="http://brocade.com/ns/rest" y:self="/
rest/config/running/ipv6">
    <mtu>9010</mtu>
</ipv6>
```

Parameters

number

Specifies the IPv6 MTU value. The range is from 1300 to 9018 bytes.

History

Release version	History
7.0.1	This Netconf call was introduced.

isns

Enables Internet Storage Name Services (iSNS) configuration mode, providing a variety of configuration options.

Usage

```
<isns xmlns=""urn:brocade.com:mgmt:brocade-isns"">
         <isns-vrf>
            <isns-vrf-instance>1</isns-vrf-instance>
            <isns-ipaddress>0.0.0.0</isns-ipaddress>
            <esi-timeout>120</esi-timeout>
         </isns-vrf>
      </isns>
```

Parameters

isns-vrf-instance

Specifies the VRF forwarding instance ID.

isns-ipaddress

Specifies the IP address of the VRF instance.

esi-timeout

Specifies the VRF instance entity status inquiry (ESI) timeout.

History

Release version	History
7.1.0	This NETCONF call was introduced.

isns/vrf-forwarding/discovery-domain/isns-device

Configures an Internet Storage Name Services (iSNS) device for a discovery domain.

Usage

```
<isns xmlns=""urn:brocade.com:mgmt:brocade-isns"">
 <isns-vrf>
  <isns-vrf-instance>1</isns-vrf-instance>
   <isns-discovery-domain>
   <isns-discovery-domain-name>DD1</isns-discovery-domain-name>
    <isns-device>ISNSdevicename</isns-device>
   </isns-discovery-domain>
 </isns-vrf>
</isns>
```

Parameters

isns-vrf-instance

Specifies the VRF forwarding instance ID.

isns-discovery-domain-name

Specifies the discovery domain name.

isns-device

Specifies the iSNS device.

History

Release version	History
7.1.0	This NETCONF call was introduced.

isns/vrf-forwarding/isns-ipaddress

Configures the Internet Storage Name Services (iSNS) VRF forwarding IP address.

Usage

```
<isns xmlns=""urn:brocade.com:mgmt:brocade-isns"">
        <isns-vrf>
           <isns-vrf-instance>1</isns-vrf-instance>
           <isns-ipaddress>120.0.0.100</isns-ipaddress>
          </isns-vrf>
     </isns>
```

Parameters

isns-vrf-instance

Specifies the VRF instance.

isns-ipaddress

Specifies the IP address for iSNS VRF forwarding.

History

Release version	History
7.1.0	This NETCONF call was introduced.

isns/vrf-forwarding

Configures discovery domain parameters.

Usage

```
<isns xmlns=""urn:brocade.com:mgmt:brocade-isns"">
        <isns-vrf>
           <isns-vrf-instance>1</isns-vrf-instance>
       </isns-vrf>
     </isns>
```

Parameters

isns-vrf-instance

Specifies the VRF forwarding instance ID. The supported value is 1.

NOTE

This NETCONF call does not support the delete operation.

History

Release version	History
7.1.0	This NETCONF call was introduced.

lacp

Configures LACP system priority

Usage

```
<lacp xmlns="urn:brocade.com:mgmt:brocade-lacp">
    <system-priority>32750</system-priority>
</lacp>
```

Parameters

system-priority

Specifies the LACP system priority. The value can range from 1 through 65535. The default value is 32768

ldap-server/host

Configures a LDAP server for AAA settings.

Usage

```
<ldap-server xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <host>
        <hostname>1.1.1.1</hostname>
        <port>389</port>
        <use-vrf>vrf1</use-vrf>
        <retries>6</retries>
        <timeout>10</timeout>
        <basedn>base</basedn>
    </host>
</ldap-server>
```

Parameters

hostname

LDAP server host name

port

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

use-vrf

Specifies the user defined VRF name

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

Wait time for this server to respond. The value can range from 1 through 60 seconds. The default wait time is 5 seconds

basedn

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

History

Release version	History
7.0.0	This Netconf call was modified the include the parameter *use-vrf*.

ldap-server/maprole

Configures LDAP server settings for maps.

Usage

```
<ldap-server xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <maprole>
        <group>
            <ad-group>AD</ad-group>
            <switch-role>admin</switch-role>
        </group>
    </maprole>
</ldap-server>
```

Parameters

ad-group

AD group belongs to user on the AD Server

switch-role

Specifies the role name

line

Configures CLI session.

Usage

```
<terminal-cfg xmlns="urn:brocade.com:mgmt:brocade-terminal">
    <line>
        <sessionid>vty</sessionid>
        <exec-timeout>10</exec-timeout>
    </line>
</terminal-cfg>
```

Parameters

vty

Specifies the terminal type

exec-timeout

Specifies CLI session maximum idle timebefore automatic logout. The timeout value can range from 0 through 130 minutes. The defalut timeout value is set to 0 minute

logging/auditlog

Configures auditlog classes.

Usage

```
<logging xmlns="urn:brocade.com:mgmt:brocade-ras">
    <auditlog>
        <class>
            <class>SECURITY</class>
        </class>
    </auditlog>
</logging>
```

Parameters

class

Specifies auditlog class. The following classes are available

CONFIGURATION

FIRMWARE

SECURITY

logging/raslog/console

Configures RASLOG console severity.

Usage

```
<logging xmlns="urn:brocade.com:mgmt:brocade-ras">
    <raslog>
        <console>INFO</console>
    </raslog>
</logging>
```

Parameters

console

Specifies RASLOG console severity. The following severities are available

CRITICAL

ERROR

INFO

WARNING

logging/raslog/message

Configures RASLOG message.

Usage

```
<logging xmlns="urn:brocade.com:mgmt:brocade-ras">
    <raslog>
        <message>
            <msgId>
                <msgId>AUTH-1001</msgId>
                <severity>DEFAULT</severity>
                <suppress></suppress>
            </msgId>
        </message>
    </raslog>
</logging>
```

Parameters

msgId

Specifies the Message ID

severity

Specifies the severity level

suppress

Suppresses the RASLOG message

logging/syslog-client

Configures local IP syslog-client.

Usage

```
<logging xmlns="urn:brocade.com:mgmt:brocade-ras">
    <syslog-client>
        <localip>CHASSIS_IP</localip>
    </syslog-client>
</logging>
```

Parameters

localip

Specifies local IP type. The following IP types are available

CHASSIS_IP

MM_IP

logging/syslog-facility

Configures SYSLOG facility.

Usage

```
<logging xmlns="urn:brocade.com:mgmt:brocade-ras">
    <syslog-facility>
        <local>LOG_LOCAL3</local>
    </syslog-facility>
</logging>
```

Parameters

local

Specifies SYSLOG facility

logging/syslog-server

Configures SYSLOG server address.

Usage

```
<logging xmlns="urn:brocade.com:mgmt:brocade-ras">
    <syslog-server>
        <syslogip>1.1.1.1</syslogip>
        <use-vrf>mgmt-vrf</use-vrf>
        <secure></secure>
        <port>6514</port>
    </syslog-server>
</logging>
```

Parameters

syslogip

The IPv4 or IPv6 address

use-vrf

Specifies the VRF to use for sending notification to the receiver

secure

Indicates if transport is secure

port

Port number on which the syslog server is listening

History

Release version	History
7.0.0	This Netconf call was modified the include the parameter *use-vrf*.

mac/access-list/extended

Configures extended MAC access list.

Usage

```
<mac xmlns="urn:brocade.com:mgmt:brocade-mac-access-list">
    <access-list>
        <extended>
            <name>acl21</name>
        </extended>
    </access-list>
</mac>
```

Parameters

name

Access list name

mac/access-list/extended/{acl-name}/seq

Configures the sequence number

Usage

```
<mac xmlns="urn:brocade.com:mgmt:brocade-mac-access-list">
    <access-list>
        <extended>
            <name>acl21</name>
            <hide-mac-acl-ext>
                <seq>
                    <seq-id>25</seq-id>
                    <action>hard-drop</action>
                    <source>0011.1122.2233</source>
                    <src-mac-addr-mask>1212.2323.3131</src-mac-addr-mask>
                    <dst>any</dst>
                    <ethertype>arp</ethertype>
                    <vlan>1</vlan>
                    <count></count>
                    <log></log>
                </seq>
            </hide-mac-acl-ext>
        </extended>
    </access-list>
</mac>
```

Parameters

name
: Access list name

seq-id
: The sequence ID

action
: Displays all rules with the specified action. The following actions are allowed

deny
: Drop traffic

hard-drop
: Force drop traffic

permit
: Allow traffic

source
: Source details

src-mac-addr-mask
: Specifies the source MAC address mask

dst
: Specifies details on the destination

ethertype
: Filters extended ACLs traffic based on ethertype

vlan
: Specifies the VLAN number

count
: Displays the count of forwarding entries

log
: Log

mac/access-list/standard

Configures standard MAC access-list.

Usage

```
<mac xmlns="urn:brocade.com:mgmt:brocade-mac-access-list">
    <access-list>
        <standard>
            <name>acl25</name>
        </standard>
    </access-list>
</mac>
```

Parameters

name

Access list name

mac/access-list/standard/{acl-name}/seq

Configures the sequence number.

Usage

```
<mac xmlns="urn:brocade.com:mgmt:brocade-mac-access-list">
    <access-list>
        <standard>
            <name>acl25</name>
            <hide-mac-acl-std>
                <seq>
                    <seq-id>21</seq-id>
                    <action>permit</action>
                    <source>0011.1122.2233</source>
                    <src-mac-addr-mask>0101.0202.0303</src-mac-addr-mask>
                    <count></count>
                    <log></log>
                </seq>
            </hide-mac-acl-std>
        </standard>
    </access-list>
</mac>
```

Parameters

name
: Access list name

seq-id
: The sequence ID

action
: Displays all rules with the specified action. The following actions are allowed

deny
: Drop traffic

hard-drop
: Force drop traffic

permit
: Allow traffic

source
: Source details

src-mac-addr-mask
: Specifies the source MAC address mask

count
: Displays the count of forwarding entries

log
: Log

mac-address-table/aging-time

Configures mac-address-table aging time.

Usage

```
<mac-address-table xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">
    <aging-time>
        <legacy-time-out>350</legacy-time-out>
    </aging-time>
</mac-address-table>
```

Parameters

legacy-time-out

Seconds in standalone mode. The value can range from 60 through 100000 seconds

mac-address-table/consistency-check/interval

Configures MAC consistency check interval.

Usage

```
<mac-address-table xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">
    <consistency-check>
        <mac-consistency-check-interval>150</mac-consistency-check-interval>
    </consistency-check>
</mac-address-table>
```

Parameters

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

mac-address-table/consistency-check/suppress

Suppresses MAC consistency check.

Usage

```
<mac-address-table xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">
    <consistency-check>
        <mac-consistency-check-suppress></mac-consistency-check-suppress>
    </consistency-check>
</mac-address-table>
```

Parameters

mac-consistency-check-suppress

Suppresses MAC consistency check

mac-address-table/learning-mode

Configures conversational learning mode.

Usage

```
<mac-address-table xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">
    <learning-mode>conversational</learning-mode>
</mac-address-table>
```

Parameters

learning-mode

Enables conversational learning mode

mac-address-table/mac-move/detect

Enables MAC move detect.

Usage

```
<mac-address-table xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">
    <mac-move>
        <mac-move-detect-enable></mac-move-detect-enable>
    </mac-move>
</mac-address-table>
```

Parameters

mac-move-detect-enable

Enables MAC move detect

mac-address-table/mac-move/limit

Configures MAC move detect limit.

Usage

```
<mac-address-table xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">
    <mac-move>
        <mac-move-limit>100</mac-move-limit>
    </mac-move>
</mac-address-table>
```

Parameters

mac-move-limit

Specifies MAC move detect limit. The value can range from 5 through 500. The default value is 20

mac-address-table/static

Configures static address.

Usage

```
<mac-address-table xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">
    <static>
        <mac-address>0011.1122.2233</mac-address>
        <forward>forward</forward>
        <interface-type>tengigabitethernet</interface-type>
        <interface-name>1/0/5</interface-name>
        <vlan>vlan</vlan>
        <vlanid>1</vlanid>
    </static>
</mac-address-table>
```

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. The following interface types can be configured

fortygigabitethernet

40G physical ethernet interface

gigabitethernet

1G physical ethernet interface

hundredgigabitethernet

100G physical ethernet interface

port-channel

Port-Channel or LAG interface

tengigabitethernet

10G physical ethernet interface

interface-name

Specifies the interface name

vlanid

Specifies the VLAN number

mac-group

Configures MAC group.

Usage

```
<mac-group xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">
    <mac-group-id>2</mac-group-id>
</mac-group>
```

Parameters

mac-group-id

Specifies MAC group ID. The value can range from 1 through 500

mac-group/mac

Adds MAC address to the MAC group.

Usage

```
<mac-group xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">
    <mac-group-id>1</mac-group-id>
    <mac-group-entry>
        <entry-address>0011.1122.2233</entry-address>
    </mac-group-entry>
</mac-group>
```

Parameters

mac-group-id

Specifies MAC group ID

entry-address

Specifies MAC address in HHHH.HHHH.HHHH format

monitor/session

Configures SPAN sessions.

Usage

```
<monitor xmlns="urn:brocade.com:mgmt:brocade-span">
    <session>
        <session-number>50</session-number>
    </session>
</monitor>
```

Parameters

session-number

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

monitor/session/{session-id}/description

Configures a description for the session.

Usage

```
<monitor xmlns="urn:brocade.com:mgmt:brocade-span">
    <session>
        <session-number>50</session-number>
        <description>session</description>
    </session>
</monitor>
```

Parameters

session-number

Specifies session ID

description

Specifies the session description

monitor/session/{session-id}/source

Configures source and destination interface for monitor session.

Usage

```
<monitor xmlns="urn:brocade.com:mgmt:brocade-span">
    <session>
        <session-number>1</session-number>
        <span-command>
            <source>source</source>
            <src-tengigabitethernet>tengigabitethernet</src-tengigabitethernet>
            <src-tengigabitethernet-val>1/0/15</src-tengigabitethernet-val>
            <destination>destination</destination>
            <dest-tengigabitethernet>tengigabitethernet</dest-tengigabitethernet>
            <dest-tengigabitethernet-val>1/0/18</dest-tengigabitethernet-val>
            <direction>rx</direction>
        </span-command>
    </session>
</monitor>
```

Parameters

source

Specifies the source interface. The source interface can be one of the following

fortygigabitethernet

40G physical ethernet interface

gigabitethernet

1000G physical ethernet interface

hundredgigabitethernet

100G physical ethernet interface

tengigabitethernet

10G physical ethernet interface

destination

Specifies the destination interface. The destination interface can be one of the following

fortygigabitethernet

40G physical ethernet interface

gigabitethernet

1000G physical ethernet interface

hundredgigabitethernet

100G physical ethernet interface

rspan-vlan

Remote VLAN

tengigabitethernet

10G physical ethernet interface

direction

Speicifies mirroe direction. The following directions are available

both

Ingress and Egress mirroring

rx

Ingress mirroring

tx

Egress mirroring

mtu

Set Layer 2 value to all interfaces of the cluster.

Usage

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
     <mtu>9215</mtu>
</interface>
```

Parameters

number

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

History

Release version	History
7.0.1	This Netconf call was introduced.

nas/auto-qos

Configures automatic quality of service.

Usage

```
<nas xmlns="urn:brocade.com:mgmt:brocade-qos">
    <auto-qos></auto-qos>
</nas>
```

Parameters

auto-qos

Enables automatic quality of service

nas/auto-qos/set/cos

Configures CoS value.

Usage

```
<nas xmlns="urn:brocade.com:mgmt:brocade-qos">
    <auto-qos>
        <set>
            <cos>4</cos>
        </set>
    </auto-qos>
</nas>
```

Parameters

cos

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

nas/auto-qos/set/dscp

Configures DSCP value for Network Attached Storage.

Usage

```
<nas xmlns="urn:brocade.com:mgmt:brocade-qos">
    <auto-qos>
        <set>
            <dscp>30</dscp>
        </set>
    </auto-qos>
</nas>
```

Parameters

dscp

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

nas/server-ip/{ip-address}/vrf

Configures network attached storage server with Virtual Routing and Forwarding (VRF).

Usage

```
<nas xmlns="urn:brocade.com:mgmt:brocade-qos">
    <server-ip>
        <server-ip>1.1.1.1/32</server-ip>
        <vrf>
            <vrf-name>mgmt-vrf</vrf-name>
        </vrf>
    </server-ip>
</nas>
```

Parameters

server-ip

Specifies the IP address

vrf-name

Specifies the VRF name

nas/server-ip/{ip-address}/vlan

Configures network attached storage server with Virtual LAN (VLAN).

Usage

```
<nas xmlns="urn:brocade.com:mgmt:brocade-qos">
    <server-ip>
        <server-ip>2.2.2.2/32</server-ip>
        <vlan>
            <vlan-number>1</vlan-number>
        </vlan>
    </server-ip>
</nas>
```

Parameters

server-ip

Specifies the IP address

vlan-number

Specifies the VLAN number

nsx-controller

Configures NSX controller.

Usage

```
<nsx-controller xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>nsx21</name>
</nsx-controller>
```

Parameters

name

Specifies the name of the NSX controller

nsx-controller/{controller-name}/activate

Activates an NSX controller connection profile, thereby initiating the connection between the NSX controller and the VCS fabric.

Usage

```
<nsx-controller xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>controller1</name>
    <activate></activate>
</nsx-controller>
```

Parameters

name

Specifies the NSX controller naem

activate

Activates an NSX controller connection profile

nsx-controller/{controller-name}/ip/address

Configures IP address for NSX controller.

Usage

```
<nsx-controller xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>nsx21</name>
    <connection-addr>
        <address>1.1.1.1</address>
        <port>6552</port>
        <method>ssl</method>
    </connection-addr>
</nsx-controller>
```

Parameters

name
: Specifies NSX controller name

address
: Specifies IP address of NSX controller

port
: Specifies NSX controller port number

method
: Specifies the connection method

nsx-controller/{controller-name}/reconnect-interval

Configures the reconnect interval time.

Usage

```
<nsx-controller xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>nsx21</name>
    <reconnect-interval>15</reconnect-interval>
</nsx-controller>
```

Parameters

name

Specifies the name of the NSX controller

reconnect-interval

Specifies the time interval in seconds. The value can range from 1 through 1000. The default value is 10 seconds

ntp/authentication-key

Configures NTP authentication key parameters.

Usage

```
<ntp xmlns="urn:brocade.com:mgmt:brocade-ntp">
    <authentication-key>
        <keyid>650</keyid>
        <sha1>sha1</sha1>
        <encryption-level>0</encryption-level>
    </authentication-key>
</ntp>
```

Parameters

keyid

Specifies authentication key ID. The value can range from 65535

encryption-type

Specifies the encryption type. Two types of encryption are allowed:

sha1

SHA1 encryption

md5

MD5 encrytion

encryption-level

Specifies the encrytion level. There are two encryption levels

0

Stores the key in clear-text format

History

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

ntp/server

Configures Network Time Protocol (NTP) server IP address.

Usage

```
<ntp xmlns="urn:brocade.com:mgmt:brocade-ntp">
    <server>
        <ip>1.1.1.1</ip>
        <key>1</key>
    </server>
</ntp>
```

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

ntp/source-ip

Configures the source IP to be used for Network Time Protocol (NTP).

Usage

```
<ntp xmlns="urn:brocade.com:mgmt:brocade-ntp">
    <source-ip>chassis-ip</source-ip>
</ntp>
```

Parameters

source-ip

Specifies the source IP to be used for NTP. The following source IP can be configured

chassis-ip

Uses chassis IP as source address

mm-ip

Uses local MM IP as source address

openflow-controller

Configures openflow controller.

Usage

```
<openflow-controller xmlns="urn:brocade.com:mgmt:brocade-openflow">
    <controller-name>openflow1</controller-name>
</openflow-controller>
```

Parameters

controller-name

Specifies the name of the openflow controller

openflow-controller/{controller-name}/ip

Configures IP address for openflow controller.

Usage

```
<openflow-controller xmlns="urn:brocade.com:mgmt:brocade-openflow">
    <controller-name>openflow1</controller-name>
    <connection-address>
        <controller-address>1.1.1.1</controller-address>
        <connection-port>60</connection-port>
    </connection-address>
</openflow-controller>
```

Parameters

controller-name

OpenFlow controller name

controller-address

IP address of OpenFlow controller

connection-port

OpenFlow controller port number

overlay-gateway

Configures overlay gateway instances.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>og1</name>
</overlay-gateway>
```

Parameters

name

Overlay Gateway name

overlay-gateway/{gateway-name}/activate

Activates the Overlay Gateway instance.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>og1</name>
    <activate></activate>
</overlay-gateway>
```

Parameters

name

Specifies the Overlay Gateway name

activate

Activates the overlay gateway instance

overlay-gateway/{gateway-name}/attach/rbridge-id/add

Configures rbridges on which to setup this gateway.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>og1</name>
    <attach>
        <rbridge-id>
            <rb-add>1</rb-add>
        </rbridge-id>
    </attach>
</overlay-gateway>
```

Parameters

name

Specifies the name of the overlay gateway

rb-add

Specifies the range of RBridge-ids to add

overlay-gateway/{gateway-name}/attach/vlan

Configures VLAN attachment for this gateway.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>og1</name>
    <attach>
        <vlan>
            <vid>1</vid>
            <mac>0011.1122.2233</mac>
        </vlan>
    </attach>
</overlay-gateway>
```

Parameters

vid

Specifies the range of VLAN ids to add

mac

Specifies MAC address in HHHH.HHHH.HHHH format

overlay-gateway/{gateway-name}/enable

Enables per VLAN statistics.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>og1</name>
    <enable>
        <statistics>
            <stats-direction>both</stats-direction>
            <vlan-action>add</vlan-action>
            <vlan-list>1</vlan-list>
        </statistics>
    </enable>
</overlay-gateway>
```

Parameters

stats-direction

Specifies the flow direction. The flow direction can be set to any one of the following

both

Both transmitted and received packets

rx

Received pacvkets

tx

Transmitted packets

vlan-action

Specifies the actrion. Two actions are allowed

add

Specifes the VLANs to add

remove

Specifies the VLANs to remove

vlan-list

Specifies the range of VLAN IDs

overlay-gateway/{gateway-name}/ip/access-group

Configures IPv4 access-group for the Overlay Gateway.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>og1</name>
    <access-lists>
        <ipv4>
            <in>
                <ipv4-acl-in-name>acl4</ipv4-acl-in-name>
                <ipv4-acl-in-dir></ipv4-acl-in-dir>
            </in>
        </ipv4>
    </access-lists>
</overlay-gateway>
```

Parameters

ipv4-acl-in-name

Specifies the access list name

ipv4-acl-in-dir

Configures IPv4 access group in ingress direction

overlay-gateway/{gateway-name}/ip/interface/loopback

Configures Loopback interface for the Overlay Gateway

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>og1</name>
    <ip>
        <interface>
            <loopback>
                <loopback-id>1</loopback-id>
            </loopback>
        </interface>
    </ip>
</overlay-gateway>
```

Parameters

loopback-id

Specifies loopback port number

overlay-gateway/{gateway-name}/ip/interface/ve/{ve-id}/fabric-virtual-gateway

Uses Fabric-Virtual-Gateway IP address.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>og1</name>
    <ip>
        <interface>
            <ve>
                <ve-id>1</ve-id>
                <fabric-virtual-gateway></fabric-virtual-gateway>
            </ve>
        </interface>
    </ip>
</overlay-gateway>
```

Parameters

ve-id

Specifies VE interface number

fabric-virtual-gateway

Enables use of Fabric-Virtual-Gateway IP address

overlay-gateway/{gateway-name}/ip/interface/ve/{ve-id}/vrrp-extended-group

Configures virtual router

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>og1</name>
    <ip>
        <interface>
            <ve>
                <ve-id>1</ve-id>
                <vrrp-extended-group>1</vrrp-extended-group>
            </ve>
        </interface>
    </ip>
</overlay-gateway>
```

Parameters

ve-id

Specifies VE interface number

vrrp-extended-group

Specifies Virtual Router Indentifier. The value can range from 1 through 255

overlay-gateway/{gateway-name}/ipv6/access-group

Configures IPv6 access-group for the Overlay Gateway.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>og1</name>
    <access-lists>
        <ipv6>
            <in>
                <ipv6-acl-in-name>acl12</ipv6-acl-in-name>
                <ipv6-acl-in-dir></ipv6-acl-in-dir>
            </in>
        </ipv6>
    </access-lists>
</overlay-gateway>
```

Parameters

ipv6-acl-in-name

Specifies IPv6 access group name

ipv6-acl-in-dir

Configures IPv6 access group in ingress direction

overlay-gateway/{gateway-name}/mac

Configures MAC access-group for the Overlay Gateway.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>og1</name>
    <access-lists>
        <mac>
            <in>
                <mac-acl-in-name>acl10</mac-acl-in-name>
                <mac-acl-in-dir></mac-acl-in-dir>
            </in>
        </mac>
    </access-lists>
</overlay-gateway>
```

Parameters

mac-acl-in-name

Specifies the name of the MAC access list

mac-acl-in-dir

Configures MAC access-group in ingress direction

overlay-gateway/{gateway-name}/map

Configures the VLAN to VNI mappings for the Overlay Gateway.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>gateway2</name>
    <map>
        <vlan>
            <vni>
                <auto/>
            </vni>
        </vlan>
    </map>
</overlay-gateway>
```

Parameters

overlay-gateway/{gateway-name}/monitor

Configures SPAN for the tunnels of this gateway.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>name1</name>
    <monitor>
        <session>1</session>
        <direction>both</direction>
        <remote-endpoint>any</remote-endpoint>
        <vlan-add-remove>add</vlan-add-remove>
        <vlan-range>5,14-17</vlan-range>
    </monitor>
</overlay-gateway>
```

Parameters

session

Specifies session number

direction

Specifies flow direction. Flow direction can be set to the following

both

Both transmitted and received packets

rx

Received packets

tx

Transmitted packets

remote-endpoint

Specifies tunnel destination end point address. The destination end point address can be set to

<A.B.C.D>

Specifies IP address of specific tunnel end point

any

Specifies all tunnel end points

vlan-add-remove

Adds or removes target VLAN IDs

vlan-range

Specifies range of VLAN IDs to add or remove

overlay-gateway/{gateway-name}/sflow

Configures SFLOW for the tunnels of this gateway.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>og1</name>
    <sflow>
        <sflow-profile-name>sflow1</sflow-profile-name>
        <sflow-remote-endpoint>any</sflow-remote-endpoint>
        <sflow-vlan-action>add</sflow-vlan-action>
        <sflow-vlan-range>100</sflow-vlan-range>
    </sflow>
</overlay-gateway>
```

Parameters

sflow-profile-name

Specifies Sflow profile name

sflow-remote-endpoint

Specifies tunnel destination end point address. The destination end point address can be set to

<A.B.C.D>

Specifies IP address of specific tunnel end point

any

Specifies all tunnel end points

sflow-vlan-action

Specifies the action on target VLAN IDs. There are two action

add

Specifies target VLAN IDs to add

remove

Specifies taarget VLAN IDs to remove

sflow-vlan-range

Specified the range of VLAN IDs to add or remove

overlay-gateway/{gateway-name}/site

Configures remote extension site.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>og1</name>
    <site>
        <name>site1</name>
    </site>
</overlay-gateway>
```

Parameters

name

Specifies the site name

overlay-gateway/{gateway-name}/site/{site-name}/bfd

Creates BFD session for the tunnels to the remote site.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>og1</name>
    <site>
        <name>site1</name>
        <bfd>
            <params>
                <interval>
                    <min-tx>110</min-tx>
                    <min-rx>330</min-rx>
                    <multiplier>3</multiplier>
                </interval>
            </params>
        </bfd>
    </site>
</overlay-gateway>
```

Parameters

name

Specifies the site name

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

overlay-gateway/{gateway-name}/site/{site-name}/extend

Configures Layer2 domains to be extended towards this site.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>gateway2</name>
    <site>
        <name>sanjose</name>
        <extend>
            <vlan>
                <add>1-10</add>
            </vlan>
        </extend>
    </site>
</overlay-gateway>
```

Parameters

name

Specifies site name

add

Specifies VLAN IDs to add

remove

Specifies VLAN IDs to remove

overlay-gateway/{gateway-name}/site/{site-name}/ip

Configures tunnel destination IP address.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>gateway2</name>
    <site>
        <name>sanjose</name>
        <tunnel-dst>
            <address>10.10.10.1</address>
        </tunnel-dst>
    </site>
</overlay-gateway>
```

Parameters

name

Specifies site name

address

Specifies tunnel destination IP address

overlay-gateway/{gateway-name}/site/{site-name}/mac-learning/protocol/bgp

By default, MAC address learning is enabled on VXLAN Layer 2 extension tunnels. Use this command to delegate the responsibility for MAC learning on a tunnel to the Layer 3 control-plane protocol, such as BGP EVPN.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>overlaygateway1</name>
    <site>
        <name>site1</name>
        <mac-learning>
            <protocol>bgp</protocol>
        </mac-learning>
    </site>
</overlay-gateway>
```

Parameters

name

Specifies the site name

protocol

Specifies control plane MAC learning protocol

bgp

Sets BGP-EVPN based MAC learning

History

Release version	History
7.0.0	This Netconf call was introduced.

overlay-gateway/{gateway-name}/site/{site-name}/shutdown

Disables tunnel to the remote site.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>gateway2</name>
    <site>
        <name>sanjose</name>
        <shutdown></shutdown>
    </site>
</overlay-gateway>
```

Parameters

name

Specifies the name of the site

shutdown

Disables tunnels to the remote site

overlay-gateway/{gateway-name}/type

pecifies whether a VXLAN overlay gateway uses NSX Controller or OpenStack integration, or Layer 2 extension.

Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>overlaygateway1</name>
    <gw-type>hardware-vtep</gw-type>
</overlay-gateway>
```

Parameters

name

Specifies the overlay gateway name

gw-type

Specifies the type of Overlay Gateway. There are two types of Overlay Gateway

hardware-vtep

Specifies NSX Controller/OpenStack integration

layer2-extension

Specifies Layer 2 extension

History

Release version	History
7.0.0	This Netconf call was modified to deprecate the **nsx** keyword and replace it with the **hardware-vtep** keyword, supporting both NSX Controller and OpenStack deployments.

ovsdb-server

Specifies an Open vSwitch Database SSL server for OpenStack deployments.

Usage

```
<ovsdb-server xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>ovsdb1</name>
</ovsdb-server>
```

Parameters

name

Specifies the name of an OVSDB SSL server

History

Release version	History
7.0.0	This Netconf call was introduced.

ovsdb-server/{server-name}/activate

Activates an Open vSwitch Database SSL server for OpenStack deployments.

Usage

```
<ovsdb-server xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>ovsdb1</name>
    <activate></activate>
</ovsdb-server>
```

Parameters

name

Specifies the OVSDB server name

activate

Activates an OVSDB SSL server for OpenStack deployments

History

Release version	History
7.0.0	This Netconf call was introduced.

ovsdb-server/{server-name}/port

Specifies the port of an Open vSwitch Database SSL server to be used for OpenStack deployments.

Usage

```
<ovsdb-server xmlns="urn:brocade.com:mgmt:brocade-tunnels">
    <name>ovsdb1</name>
    <port>8000</port>
</ovsdb-server>
```

Parameters

name

Specifies the OVSDB server name

port

Specifies the port of an Open vSwitch Database SSL server to be used for OpenStack deployments

History

Release version	History
7.0.0	This Netconf call was introduced.

password-attributes/admin-lockout

Enables lockout for admin role accounts after maximum login retry attempts failed.

Usage

```
<password-attributes xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <admin-lockout-enable></admin-lockout-enable>
</password-attributes>
```

Parameters

admin-lockout-enable

Enables lockout for admin role

password-attributes/character-restriction/lower

Configures restriction on minimum number of lower case alphabet.

Usage

```
<password-attributes xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <character-restriction>
            <lower>1</lower>
    </character-restriction>
</password-attributes>
```

Parameters

lower

Specifies the minimum number of lower-case alphabets. The value can range from 0 through 32. The default value is 8 number of lower-case alphabets

password-attributes/character-restriction/numeric

Configures restriction on the minimum number of numeric characters.

Usage

```
<password-attributes xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <character-restriction>
        <numeric>1</numeric>
    </character-restriction>
</password-attributes>
```

Parameters

numeric

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

password-attributes/character-restriction/special-char

Configures restriction on the minimum number of special characters.

Usage

```
<password-attributes xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <character-restriction>
        <special-char>1</special-char>
    </character-restriction>
</password-attributes>
```

Parameters

special-char

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

password-attributes/max-lockout-duration

Configures the maximum number of minutes after which the user account is unlocked.

Usage

```
<password-attributes xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <max-lockout-duration>1</max-lockout-duration>
</password-attributes>
```

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

password-attributes/max-retry

Configures the maximum number of login retries before which the user account is locked.

Usage

```
<password-attributes xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <max-retry>4</max-retry>
</password-attributes>
```

Parameters

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 in 0

password-attributes/min-length

Configures the minimum length of the password.

Usage

```
<password-attributes xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <min-length>10</min-length>
</password-attributes>
```

Parameters

min-length

Specifies the minimum length of the password. Ther value can range from 8 through 32 characters. The default length of the passowrd is 8 characters

police-priority-map

Configures Policer Priority Map.

Usage

```
<police-priority-map xmlns="urn:brocade.com:mgmt:brocade-policer">
    <name>policemap1</name>
</police-priority-map>
```

Parameters

name

Specifies the name of policer priority map.

police-priority-map/conform

Configures police priority map for conforming traffic.

Usage

```
<police-priority-map xmlns="urn:brocade.com:mgmt:brocade-policer">
    <name>policemap1</name>
    <conform>
        <map-pri0-conform>1</map-pri0-conform>
        <map-pri1-conform>2</map-pri1-conform>
        <map-pri2-conform>1</map-pri2-conform>
        <map-pri3-conform>2</map-pri3-conform>
        <map-pri4-conform>1</map-pri4-conform>
        <map-pri5-conform>2</map-pri5-conform>
        <map-pri6-conform>1</map-pri6-conform>
        <map-pri7-conform>1</map-pri7-conform>
    </conform>
</police-priority-map>
```

Parameters

name

Specifies the name of the policer priority map name

map-pri0-conform

0 - 7 priority map value

police-priority-map/exceed

Configures policer priority map for exceeding traffic.

Usage

```
<police-priority-map xmlns="urn:brocade.com:mgmt:brocade-policer">
    <name>policemap1</name>
    <exceed>
        <map-pri0-exceed>2</map-pri0-exceed>
        <map-pri1-exceed>1</map-pri1-exceed>
        <map-pri2-exceed>2</map-pri2-exceed>
        <map-pri3-exceed>1</map-pri3-exceed>
        <map-pri4-exceed>2</map-pri4-exceed>
        <map-pri5-exceed>1</map-pri5-exceed>
        <map-pri6-exceed>2</map-pri6-exceed>
        <map-pri7-exceed>3</map-pri7-exceed>
    </exceed>
</police-priority-map>
```

Parameters

name

Specifies the name of the police priority map

map-pri0-exceed

0 - 7 priority map value

policy-map

Configures policy map.

Usage

```
<policy-map xmlns="urn:brocade.com:mgmt:brocade-policer">
    <po-name>policymap1</po-name>
</policy-map>
```

Parameters

po-name

Specifies policy map name

policy-map/{map-name}/class

Configures policy map class.

Usage

```
<policy-map xmlns="urn:brocade.com:mgmt:brocade-policer">
    <po-name>policymap1</po-name>
    <class>
        <cl-name>classmap1</cl-name>
    </class>
</policy-map>
```

Parameters

po-name

Specifies policy map name

cl-name

Specifies class map name

policy-map/{map-name}/class/{class-name}/map/cos-mutation

Specifies the mutation-map to be used on the port.

Usage

```
<policy-map xmlns="urn:brocade.com:mgmt:brocade-policer">
    <po-name>policymap1</po-name>
    <class>
        <cl-name>default</cl-name>
        <map>
            <cos-mutation>map1</cos-mutation>
        </map>
    </class>
</policy-map>
```

Parameters

po-name

Specifies policy map name

cl-name

Specifies class map name

cos-mutation

Specifies the user-defined map-name

policy-map/{map-name}/class/{class-name}/map/dscp-mutation

Specifies the dscp-mutation mutation-map to be used on the port.

Usage

```
<policy-map xmlns="urn:brocade.com:mgmt:brocade-policer">
    <po-name>policymap1</po-name>
    <class>
        <cl-name>default</cl-name>
        <map>
            <dscp-mutation>map4</dscp-mutation>
        </map>
    </class>
</policy-map>
```

Parameters

po-name

Specifies policy map name

cl-name

Specifies class map name

dscp-mutation

Specifies the user-defined map-name

policy-map/{map-name}/class/{class-name}/map/sflow

Adds the sFlow profile name as an action to the policy map.

Usage

```
<policy-map xmlns="urn:brocade.com:mgmt:brocade-policer">
    <po-name>pmap1</po-name>
    <class>
        <cl-name>default</cl-name>
        <map>
            <sflow>map1</sflow>
        </map>
    </class>
</policy-map>
```

Parameters

po-name

Specifies policy map name

cl-name

Specifies class map name

sflow

Specifies the name of the sFlow profile to be added

policy-map/{map-name}/class/{class-name}/police

Configures policy map class police instance.

Usage

```
<policy-map xmlns="urn:brocade.com:mgmt:brocade-policer">
    <po-name>policymap1</po-name>
    <class>
        <cl-name>classmap1</cl-name>
        <police>
            <cir>50000</cir>
            <cbs>1500</cbs>
            <eir>2000</eir>
            <conform-set-prec>1</conform-set-prec>
            <conform-set-tc>2</conform-set-tc>
            <exceed-set-dscp>15</exceed-set-dscp>
            <exceed-set-tc>2</exceed-set-tc>
        </police>
    </class>
</policy-map>
```

Parameters

po-name
: Specifies policy map name

cl-name
: Specifies class map name

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

cbs
: Specifies committed burst size. The value can range from 1250 through 12500000000

eir
: Specifies exceeded information rate. The value can range from 0 through 100000000000

conform-set-prec
: Specifies IP precedence value for conformant traffic. The value can range from 0 through 7

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

policy-map/{map-name}/class/{class-name}/scheduler

Specifies the scheduling attributes along with the TC shape rate.

Usage

```
<policy-map xmlns="urn:brocade.com:mgmt:brocade-policer">
    <po-name>policymap1</po-name>
    <class>
        <cl-name>default</cl-name>
        <scheduler>
            <strict-priority>
                <priority-number>0</priority-number>
                <scheduler-type>dwrr</scheduler-type>
                <dwrr-traffic-class0>10</dwrr-traffic-class0>
                <dwrr-traffic-class1>15</dwrr-traffic-class1>
                <dwrr-traffic-class2>10</dwrr-traffic-class2>
                <dwrr-traffic-class3>15</dwrr-traffic-class3>
                <dwrr-traffic-class4>10</dwrr-traffic-class4>
                <dwrr-traffic-class5>15</dwrr-traffic-class5>
                <dwrr-traffic-class6>10</dwrr-traffic-class6>
                <dwrr-traffic-class-last>15</dwrr-traffic-class-last>
            </strict-priority>
        </scheduler>
    </class>
</policy-map>
```

Parameters

po-name

Specifies policy map name

cl-name

Specifies class map name

policy-map/{map-name}/class/{class-name}/shape

Specifies the shaping rate for a port to smooth out the traffic egressing an interface

Usage

```
<policy-map xmlns="urn:brocade.com:mgmt:brocade-policer">
    <po-name>policymap1</po-name>
    <class>
        <cl-name>default</cl-name>
        <shape>
            <shaping_rate>30000</shaping_rate>
        </shape>
    </class>
</policy-map>
```

Parameters

po-name

Specifies policy map name

cl-name

Specifies class map name

shaping_rate

Specifies the speed for the shape rate in Kbps. The value can range from 28000 to the top speed on the interface

port-channel-redundancy-group

Configures the list of port-channel redundancy groups.

Usage

```
<port-channel-redundancy-group xmlns="urn:brocade.com:mgmt:brocade-lag">
    <group-id>5</group-id>
</port-channel-redundancy-group>
```

Parameters

group-id

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

port-channel-redundancy-group/{group-id}/activate

Activates the port-channel redundancy group.

Usage

```
<port-channel-redundancy-group xmlns="urn:brocade.com:mgmt:brocade-lag">
    <group-id>27</group-id>
    <activate></activate>
</port-channel-redundancy-group>
```

Parameters

group-id

Specifies the port channel redundancy group ID

activate

Activates the port-channel redundancy group

port-channel-redundancy-group/{group-id}/port-channel

Configures the list of port channels.

Usage

```
<port-channel-redundancy-group xmlns="urn:brocade.com:mgmt:brocade-lag">
    <group-id>5</group-id>
    <port-channel>
        <name>5</name>
        <port-channel-active></port-channel-active>
    </port-channel>
</port-channel-redundancy-group>
```

Parameters

name

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

port-channel-active

Selects port channel as active in port channel redundancy group

port-profile

Configures automatic port profile.

Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <name>portprofile1</name>
</port-profile>
```

Parameters

name

Specifies the port profile name

port-profile/{profile-name}/allow/non-profiled-macs

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

Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <name>default</name>
    <allow>
        <nonprofiledmacs></nonprofiledmacs>
    </allow>
</port-profile>
```

Parameters

name

Specifies the port-profile name

nonprofiledmacs

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

port-profile/{profile-name}/fcoe-profile

Configures FCoE profile.

Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <name>profile5</name>
    <fcoe-profile></fcoe-profile>
</port-profile>
```

Parameters

name

Specifies the name of the port profile

fcoe-profile

Enables FCoE profile configuration

port-profile/{profile-name}/fcoe-profile/fcoeport

Configures the port to be an FCoE port.

Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <name>portprofile1</name>
    <fcoe-profile>
        <fcoeport>
            <fcoe-map-name>SanA</fcoe-map-name>
        </fcoeport>
    </fcoe-profile>
</port-profile>
```

Parameters

name

Specifies the port profile name

fcoe-map-name

Specifies the FCoE Fabric map name

port-profile/{profile-name}/qos-profile

Configures QoS profile.

Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <name>portprofile1</name>
    <qos-profile></qos-profile>
</port-profile>
```

Parameters

name

Specifies the port profile name

qos-profile

Specifies QoS profile name

port-profile/{profile-name}/qos-profile/cee

Configures QoS CEE map.

Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <name>portprofile1</name>
    <qos-profile>
        <cee>default</cee>
    </qos-profile>
</port-profile>
```

Parameters

name

Specifies the port profile name

cee

Specifies the CEE map name

port-profile/{profile-name}/qos-profile/qos/cos

Configures default Class of Service (CoS).

Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <name>profile5</name>
    <qos-profile>
        <qos>
            <cos>1</cos>
        </qos>
    </qos-profile>
</port-profile>
```

Parameters

name

Specifies the port profile name

cos

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

port-profile/{profile-name}/qos-profile/qos/cos-mutation

Configures CoS-to-CoS mutation

Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <name>profile5</name>
    <qos-profile>
        <qos>
            <cos-mutation>map1</cos-mutation>
        </qos>
    </qos-profile>
</port-profile>
```

Parameters

name

Specifies port profile name

cos-mutation

port-profile/{profile-name}/qos-profile/qos/cos-traffic-class

Configures CoS-toTraffic class map.

Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <name>profile5</name>
    <qos-profile>
        <qos>
            <cos-traffic-class>map2</cos-traffic-class>
        </qos>
    </qos-profile>
</port-profile>
```

Parameters

name

Specifies port profile name

cos-traffic-class

port-profile/{profile-name}/qos-profile/qos/flowcontrol/pfc

Configures QoS priority based Flow Control.

Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <name>vm1-port-profile</name>
    <qos-profile>
        <qos>
            <flowcontrol>
                <pfc>
                    <pfc-cos>1</pfc-cos>
                    <pfc-tx>on</pfc-tx>
                    <pfc-rx>on</pfc-rx>
                </pfc>
            </flowcontrol>
        </qos>
    </qos-profile>
</port-profile>
```

Parameters

name

Specifies the port-profile name

pfc-cos

Specifies the CoS value

pfc-tx

Specifies pause generation

on

Enables pause generation

off

Disables pause generation

pfc-rx

Specifies pause reception

on

Enables pause reception

off

Disables pause reception

port-profile/{profile-name}/qos-profile/qos/flowcontrol/tx

Configures pause generation.

Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <name>profile1</name>
    <qos-profile>
        <qos>
            <flowcontrol>
                <flowcontrolglobal>
                    <tx>on</tx>
                    <rx>on</rx>
                </flowcontrolglobal>
            </flowcontrol>
        </qos>
    </qos-profile>
</port-profile>
```

Parameters

name

Specifies the port-profile name

tx

Specifies pause generation

on

Pause generation enabled

off

Pause generation disables

rx

Specifies pause reception

on

Pause reception enabled

off

Pause reception disabled

port-profile/{profile-name}/qos-profile/qos/trust

Configures QoS trust.

Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <name>vml-port-profile</name>
    <qos-profile>
        <cee>default</cee>
        <qos>
            <cos>7</cos>
            <trust>
                <trust-cos></trust-cos>
            </trust>
        </qos>
    </qos-profile>
</port-profile>
```

Parameters

name

Specifies the port-profile name

cee

Specifies the CEE name

trust-cos

Enables trust L2 field in incoming packets for deriving internal traffic class

port-profile/{profile-name}/security-profile/ip

Configures IP parameters for security profile.

Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <name>portprofile1</name>
    <security-profile>
        <ip>
            <access-group>
                <ipv4-access-group-name>acl1</ipv4-access-group-name>
                <ipv4-in></ipv4-in>
            </access-group>
        </ip>
    </security-profile>
</port-profile>
```

Parameters

ipv4-access-group-name

Specifies IPv4 access list name

ipv4-in

Configures ingress direction

port-profile/{profile-name}/security-profile/ipv6

Configure IPv6 parameters for security profile.

Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <name>portprofile1</name>
    <security-profile>
        <ipv6>
            <access-group>
                <ipv6-access-group-name>acl12</ipv6-access-group-name>
                <ipv6-in></ipv6-in>
            </access-group>
        </ipv6>
    </security-profile>
</port-profile>
```

Parameters

ipv6-access-group-name

Specifies IPv6 access list name

ipv6-in

Configures ingress direction

port-profile/{profile-name}/security-profile/mac

Configures MAC parameters for security profile.

Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <name>portprofile1</name>
    <security-profile>
        <mac>
            <access-group>
                <access-group-name>acl10</access-group-name>
                <in></in>
            </access-group>
        </mac>
    </security-profile>
</port-profile>
```

Parameters

access-group-name
: Specifies MAC access list

in
: Configures ingress direction

port-profile/{profile-name}/static

Associates VM MAC statically.

Usage

```
<port-profile-global xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <port-profile>
        <name>vm1-port-profile</name>
        <static>
            <mac-address>0050.56bf:0001</mac-address>
        </static>
    </port-profile>
</port-profile-global>
```

Parameters

name

Specifies port profile name

mac-address

Specifies MAC address in HHHH.HHHH.HHHH format

port-profile/{profile-name}/vlan-profile

Configures VLAN profile.

Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <name>portprofile1</name>
    <vlan-profile></vlan-profile>
</port-profile>
```

Parameters

name

Specifies port profile name

vlan-profile

Enables VLAN profile configuration

port-profile/{profile-name}/vlan-profile/switchport

Configures the switching characteristics of the Layer2 interface.

Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <name>profile1</name>
    <vlan-profile>
        <switchport-basic>
            <basic></basic>
        </switchport-basic>
        <switchport>
            <mode>
                <vlan-mode>access</vlan-mode>
            </mode>
            <access>
                <vlan>
                    <name>1</name>
                </vlan>
            </access>
        </switchport>
    </vlan-profile>
</port-profile>
```

Parameters

name

Specifies the port-profile name

vlan-mode

Specifies the mode

access

Sets the Layer2 interface as Access

mode

Sets mode of the Layer2 interface

trunk

Sets the Layer2 interface as trunk

vlan *name*

Specifies the VLAN ID

port-profile-domain

Defines a port profile domain.

Usage

```
<port-profile-domain xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <port-profile-domain-name>domain1</port-profile-domain-name>
</port-profile-domain>
```

Parameters

port-profile-domain-name

Specifies the name of the port profile domain

port-profile-domain/{domain-name}/port-profile

Adds a port profile to the port-profile-domain.

Usage

```
<port-profile-domain xmlns="urn:brocade.com:mgmt:brocade-port-profile">
    <port-profile-domain-name>domain1</port-profile-domain-name>
    <profile>
        <profile-name>UpgradedVlanProfile</profile-name>
    </profile>
</port-profile-domain>
```

Parameters

port-profile-domain-name

Specifies the port profile domain name

profile-name

Specifies the port profile name

preprovision

Configures preprovision profile.

Usage

```
<preprovision xmlns="urn:brocade.com:mgmt:brocade-preprovision">
    <rbridge-id>
        <rbridge-id>3</rbridge-id>
        <wwn>11:11:11:11:11:11:11:15</wwn>
    </rbridge-id>
</preprovision>
```

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

protocol/cdp

Configures Cisco Discovery Protocol (CDP).

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <cdp xmlns="urn:brocade.com:mgmt:brocade-cdp"></cdp>
</protocol>
```

Parameters

cdp

Enables Cisco Discovery Protocol

protocol/edge-loop-detection/hello-interval

Configures hello interval limit for edge-loop-detection protocol.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <edge-loop-detection xmlns="urn:brocade.com:mgmt:brocade-eld">
        <hello-interval>1500</hello-interval>
    </edge-loop-detection>
</protocol>
```

Parameters

hello-interval

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

protocol/edge-loop-detection/mac-refresh

Configures refresh time for MAC.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <edge-loop-detection xmlns="urn:brocade.com:mgmt:brocade-eld">
        <mac-refresh-time-config>
            <mac-refresh-time>65</mac-refresh-time>
            <mac-refresh-type>all</mac-refresh-type>
        </mac-refresh-time-config>
    </edge-loop-detection>
</protocol>
```

Parameters

mac-refresh-time

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

mac-refresh-type

Specifies the refresh type

all

Clean dynamic MAC(s) for entire cluster

port

Clean dynamic MAC(s) for partner port at the other end of the loop

protocol/edge-loop-detection/pdu-rx-limit

Configures bpdu-rx-limit

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <edge-loop-detection xmlns="urn:brocade.com:mgmt:brocade-eld">
        <pdu-rx-limit>2</pdu-rx-limit>
    </edge-loop-detection>
</protocol>
```

Parameters

pdu-rx-limit

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

protocol/edge-loop-detection/shutdown-time

Configures shutdown-time-limit for edge loop detection protocol.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <edge-loop-detection xmlns="urn:brocade.com:mgmt:brocade-eld">
        <shutdown-time>10</shutdown-time>
    </edge-loop-detection>
</protocol>
```

Parameters

shutdown-time

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

protocol/lldp/advertise/dcbx-fcoe-app-tlv

Enables IEEE data centre bridging exchange FCoE Application TLV.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <advertise>
            <dcbx-fcoe-app-tlv></dcbx-fcoe-app-tlv>
        </advertise>
    </lldp>
</protocol>
```

Parameters

dcbx-fcoe-app-tlv

Enables IEEE data centre bridging exchange FCoE Application TLV

protocol/lldp/advertise/dcbx-fcoe-logical-link-tlv

Enables IEEE data centre bridging exchange FCoE logical link TLV.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <advertise>
            <dcbx-fcoe-logical-link-tlv></dcbx-fcoe-logical-link-tlv>
        </advertise>
    </lldp>
</protocol>
```

Parameters

dcbx-fcoe-logical-link-tlv

Enables IEEE data centre bridging exchange FCoE logical link TLV

protocol/lldp/advertise/dcbx-iscsi-app-tlv

Enables IEEE data centre bridging exchange iSCSI application TLV.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <advertise>
            <dcbx-iscsi-app-tlv></dcbx-iscsi-app-tlv>
        </advertise>
    </lldp>
</protocol>
```

Parameters

dcbx-iscsi-app-tlv

Enables IEEE data centre bridging exchange iSCSI application TLV

protocol/lldp/advertise/dcbx-tlv

Enables IEEE data centre bridging exchange TLV.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <advertise>
            <dcbx-tlv></dcbx-tlv>
        </advertise>
    </lldp>
</protocol>
```

Parameters

dcbx-tlv

Enables IEEE data centre bridging exchange TLV

protocol/lldp/advertise/dot1-tlv

Enables IEEE 802.1 organizationally specific TLV.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <advertise>
            <dot1-tlv></dot1-tlv>
        </advertise>
    </lldp>
</protocol>
```

Parameters

dot1-tlv

Enables IEEE 802.1 organizationally specific TLV

protocol/lldp/advertise/dot3-tlv

Enables IEEE 802.3 organizationally specific TLV.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <advertise>
            <dot3-tlv></dot3-tlv>
        </advertise>
    </lldp>
</protocol>
```

Parameters

dot3-tlv

Enables IEEE 802.3 organizationally specific TLV

protocol/lldp/advertise/optional-tlv

Enables the optional TLVs.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <advertise>
            <optional-tlv>
                <management-address></management-address>
                <port-description></port-description>
                <system-capabilities></system-capabilities>
                <adv-tlv-system-description></adv-tlv-system-description>
                <adv-tlv-system-name></adv-tlv-system-name>
            </optional-tlv>
        </advertise>
    </lldp>
</protocol>
```

Parameters

management-address
: Enables management address TLV

port-description
: Enables port description TLV

system-capabilities
: Enables system capabilities TLV

adv-tlv-system-description
: Specifies system description

adv-tlv-system-name
: Specifies system name

protocol/lldp/description

Configures user description for LLDP.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <description>lldpconfig</description>
    </lldp>
</protocol>
```

Parameters

description

Specifies user description for LLDP

protocol/lldp/disable

Disable LLDP configuration.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <disable></disable>
    </lldp>
</protocol>
```

Parameters

disable

Disables LLDP configuration

protocol/lldp/hello

Configures the hello transmit interval.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <hello>35</hello>
    </lldp>
</protocol>
```

Parameters

hello

Specifies the hello transmit interval. The value can range from 4 through 180 seconds

protocol/lldp/iscsi-priority

Configures the Ethernet priority to advertise for iSCSI.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <iscsi-priority>3</iscsi-priority>
    </lldp>
</protocol>
```

Parameters

iscsi-priority

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

protocol/lldp/mode

Configures the LLDP mode.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <mode>rx</mode>
    </lldp>
</protocol>
```

Parameters

mode

Specifies the LLDP mode

rx

LLDP receive only mode

tx

LLDP transmit only mode

protocol/lldp/multiplier

Configures the timeout multiplier.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <multiplier>3</multiplier>
    </lldp>
</protocol>
```

Parameters

multiplier

Specifies the timeout multiplier value. The value can range from 2 through 10

protocol/lldp/profile/{profile-name}/advertise

Applies a Link Layer Discovery Protocol (LLDP) profile to an interface.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <profile>
            <profile-name>profile1</profile-name>
            <advertise>
                <dcbx-tlv></dcbx-tlv>
            </advertise>
        </profile>
    </lldp>
</protocol>
```

Parameters

profile-name

Specifies the profile name

advertise

Specifies the advertise TLV configuration

dcbx-fcoe-app-tlv

Advertises application Type, Length, Values (TLVs) to ensure interoperability of traffic over the Data Center Bridging eXchange protocol (DCBX), which runs over LLDP to negotiate an FCoE application TLV

dcbx-fcoe-logical-link-tlv

Advertises to any attached device the FCoE status of the logical link

dcbx-iscsi-app-tlv

Advertises the iSCSI traffic configuration parameters for Type, Length, Values (TLV) values

dcbx-tlv

Advertises to any attached device mandatory Data Center Bridging eXchange protocol (DCBX) Type, Length, Values (TLV) values

dot1-tlv

Advertises to any attached device IEEE 802.1 organizationally specific Type, Length, Values (TLV) values

dot3-tlv

Advertises to any attached device IEEE 802.3 organizationally specific Type, Length, Values (TLV) values

optional-tlv

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

protocol/lldp/profile/{profile-name}/hello

Sets the interval between LLDP hello messages.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <profile>
            <profile-name>profile1</profile-name>
            <hello>100</hello>
        </profile>
    </lldp>
</protocol>
```

Parameters

profile-name

Specifies the profile naem

hello

Specifies the interval between hello messages. The value can range from 4 through 180 seconds. The default interval is 30 seconds

protocol/lldp/profile/{profile-name}/mode

Sets the LLDP mode on the switch.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <profile>
            <profile-name>profile1</profile-name>
            <mode>rx</mode>
        </profile>
    </lldp>
</protocol>
```

Parameters

profile-name

Specifies the profile name

mode

Specifies the LLDP mode on the switch

tx

Specifies to enable only the transmit mode

rx

Specifies to enable only the receive mode

protocol/lldp/profile/{profile-name}/multiplier

Sets the number of consecutive misses of hello messages before LLDP declares the neighbor as dead.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <profile>
            <profile-name>profile1</profile-name>
            <multiplier>2</multiplier>
        </profile>
    </lldp>
</protocol>
```

Parameters

profile-name

Specifies the profile name

multiplier

Specifies a multiplier value to use. The values can range from 2 through 10. The default value is 4

protocol/lldp/system-description

Configures the system description.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <system-description>Extreme-VDX-VCS 1</system-description>
    </lldp>
</protocol>
```

Parameters

system-description

Specifies the system description.

protocol/lldp/system-name

Configures the system name.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
        <system-name>client</system-name>
    </lldp>
</protocol>
```

Parameters

system-name

Specifies the system-name

protocol/spanning-tree/mstp/bridge-priority

Configures bridge priority commands for multiple spanning tree protocol.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <mstp>
            <bridge-priority>32768</bridge-priority>
        </mstp>
    </spanning-tree>
</protocol>
```

Parameters

bridge-priority

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

protocol/spanning-tree/mstp/cisco-interoperability

Configures Cisco interoperability.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <mstp>
            <cisco-interoperability>disable</cisco-interoperability>
        </mstp>
    </spanning-tree>
</protocol>
```

Parameters

cisco-interoperability

Enables or disables cisco interoperability

disable

Disables cisco interoperability

enable

Enables cisco interoperability

protocol/spanning-tree/mstp/description

Configures spanning tree description.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <mstp>
            <description>mstpsan</description>
        </mstp>
    </spanning-tree>
</protocol>
```

Parameters

description

Specifies spanning tree description

protocol/spanning-tree/mstp/error-disable-timeout/enable

Enables timeout for the port to be enabled back.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <mstp>
            <error-disable-timeout>
                <enable></enable>
            </error-disable-timeout>
        </mstp>
    </spanning-tree>
</protocol>
```

Parameters

enable

Enables timeout for the port to be enabled back

protocol/spanning-tree/mstp/error-disable-timeout/interval

Configures time interval after which port will be enabled.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <mstp>
            <error-disable-timeout>
                <interval>350</interval>
            </error-disable-timeout>
        </mstp>
    </spanning-tree>
</protocol>
```

Parameters

interval

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

protocol/spanning-tree/mstp/forward-delay

Configures the forward delay time for the spanning tree.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <mstp>
            <forward-delay>20</forward-delay>
        </mstp>
    </spanning-tree>
</protocol>
```

Parameters

forward-delay

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

protocol/spanning-tree/mstp/hello-time

Configures the hello time interval for the spanning tree.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <mstp>
            <hello-time>3</hello-time>
        </mstp>
    </spanning-tree>
</protocol>
```

Parameters

hello-time

Sopecifies the hello time. The hello time can range from 1 through 20 seconds. The default hello time is set to 2 seconds

protocol/spanning-tree/mstp/instance/priority

Configures bridge priority for the common instance.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <mstp>
            <instance>
                <id>1</id>
                <priority>4096</priority>
            </instance>
        </mstp>
    </spanning-tree>
</protocol>
```

Parameters

id

Specifies MSTP instance Id. The value can range from 1 through 31

priority

Specifies the bridge priority. The value can range from 0 through 61440

protocol/spanning-tree/mstp/instance/vlan

Configures VLAN for MSTP.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <mstp>
            <instance>
                <id>1</id>
                <vlan>1</vlan>
            </instance>
        </mstp>
    </spanning-tree>
</protocol>
```

Parameters

id

Specifies MSTP instance ID

vlan

Specifies VLAN

protocol/spanning-tree/mstp/max-age

Configures the max age for the spanning tree.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <mstp>
            <max-age>25</max-age>
        </mstp>
    </spanning-tree>
</protocol>
```

Parameters

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

protocol/spanning-tree/mstp/max-hops

Configures the maximum hops the BPDU will be valid for.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <mstp>
            <max-hops>25</max-hops>
        </mstp>
    </spanning-tree>
</protocol>
```

Parameters

max-hops

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

protocol/spanning-tree/mstp/port-channel

Controls port channel behavior for spanning tree

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <mstp>
            <port-channel>
                <path-cost>standard</path-cost>
            </port-channel>
        </mstp>
    </spanning-tree>
</protocol>
```

Parameters

path-cost

Sets the path cost behavior

custom

Custom behavior - pathcost will change according to bandwidth

standard

Standard behavior - pathcost will not change according to bandwidth

protocol/spanning-tree/mstp/region

Sets the MST region.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <mstp>
            <region>region1</region>
        </mstp>
    </spanning-tree>
</protocol>
```

Parameters

region

Specifies the name of the region

protocol/spanning-tree/mstp/revision

Sets the revision number.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <mstp>
            <revision>1</revision>
        </mstp>
    </spanning-tree>
</protocol>
```

Parameters

revision

Specifies the revision number. The value can range from 0 through 255

protocol/spanning-tree/mstp/shutdown

Disables the Multiple Spanning Tree Protocol (MSTP) globally.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <mstp>
            <shutdown></shutdown>
        </mstp>
    </spanning-tree>
</protocol>
```

Parameters

shutdown

Shuts down the spanning tree protocol

protocol/spanning-tree/mstp/transmit-holdcount

Configures transmit hold count of the bridge.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <mstp>
            <transmit-holdcount>7</transmit-holdcount>
        </mstp>
    </spanning-tree>
</protocol>
```

Parameters

transmit-holdcount

Specifies the transmit hold count. The value can range from 1 through 10

protocol/spanning-tree/pvst/bridge-priority

Configures bridge priority for PVST Spanning-tree.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <pvst>
            <bridge-priority>32768</bridge-priority>
        </pvst>
    </spanning-tree>
</protocol>
```

Parameters

bridge-priority

Specifies the bridge priority. Valid values range from 0 through 61440 in increments of 4096.

protocol/spanning-tree/pvst/description

Configures the PVST spanning-tree description.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <pvst>
            <description>pvstspan</description>
        </pvst>
    </spanning-tree>
</protocol>
```

Parameters

decsription

Specifies the PVST spanning-tree description

protocol/spanning-tree/pvst/error-disable-timeout/enable

Enables the timeout mechanism for the port to be enabled back.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <pvst>
            <error-disable-timeout>
                <enable></enable>
            </error-disable-timeout>
        </pvst>
    </spanning-tree>
</protocol>
```

Parameters

enable

Enables timeout for PVST spanning tree

protocol/spanning-tree/pvst/error-disable-timeout/interval

Configures interval after which port shall be enabled.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <pvst>
            <error-disable-timeout>
                <interval>350</interval>
            </error-disable-timeout>
        </pvst>
    </spanning-tree>
</protocol>
```

Parameters

interval

Specifies the time for the interface to time out. The interval can range from 10 through 1000000 seconds. Ther default interval is 300 seconds

protocol/spanning-tree/pvst/forward-delay

Specifies the time an interface spends in each of the listening and learning states.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <pvst>
            <forward-delay>20</forward-delay>
        </pvst>
    </spanning-tree>
</protocol>
```

Parameters

forward-delay

Specifies the time that an interface spends in the Spanning Tree Protocol (STP) learning and listening states. Valid values range from 4 through 30 seconds. The default value is 15 seconds

protocol/spanning-tree/pvst/hello-time

Sets the interval between the hello Bridge Protocol Data Units (BPDUs) sent on an interface.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <pvst>
            <hello-time>3</hello-time>
        </pvst>
    </spanning-tree>
</protocol>
```

Parameters

hello-time

Specifies the time interval between the hello BPDUs sent on an interface. The value can range from 1through 10 seconds. The default value is 2 seconds

protocol/spanning-tree/pvst/max-age

Sets the interval time in seconds between messages that the PVST spanning tree receives from the interface.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <pvst>
            <max-age>25</max-age>
        </pvst>
    </spanning-tree>
</protocol>
```

Parameters

max-age

Specifies the PVST Spanning Tree Protocol interface maximum age. The value can range from 6 through 40. The default value is 20 seconds

protocol/spanning-tree/pvst/port-channel

Sets the path-cost behavior.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <pvst>
            <port-channel>
                <path-cost>standard</path-cost>
            </port-channel>
        </pvst>
    </spanning-tree>
</protocol>
```

Parameters

path-cost

Sets the path cost behaviour

custom

Specifies to use the custom behavior, which sets the path-cost changes according to the port-channel's bandwidth.

standard

Specifies to use the standard behavior, which sets that the path-cost does not change according to port-channel's bandwidth.

protocol/spanning-tree/pvst/shutdown

Disables the Rapid Spanning Tree Protocol (RSTP) globally.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <pvst>
            <shutdown></shutdown>
        </pvst>
    </spanning-tree>
</protocol>
```

Parameters

shutdown

Disables the Rapid Spanning Tree Protocol (RSTP) globally

protocol/spanning-tree/pvst/vlan/forward-delay

Configures the forward-delay for PVST spanning tree

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <pvst>
            <vlan>
                <id>1</id>
                <forward-delay>20</forward-delay>
            </vlan>
        </pvst>
    </spanning-tree>
</protocol>
```

Parameters

forward-delay

Specifies the forward delay time in seconds. The value can range from 4 to 30 seconds. The default value is 15 seconds

protocol/spanning-tree/pvst/vlan/hello-time

Configures the hello interval for the PVST spanning tree.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <pvst>
            <vlan>
                <id>1</id>
                <hello-time>3</hello-time>
            </vlan>
        </pvst>
    </spanning-tree>
</protocol>
```

Parameters

id

Specifies the VLAN ID

hello-time

Specifies the hello interval. The interval can range from 4 to 30 seconds. The default value is 2 seconds

protocol/spanning-tree/pvst/vlan/max-age

Configures the max-age for the PVST spanning tree.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <pvst>
            <vlan>
                <id>1</id>
                <max-age>25</max-age>
            </vlan>
        </pvst>
    </spanning-tree>
</protocol>
```

Parameters

id

Specifies the VLAN ID

max-age

Specifies the max-age for the PVST spanning tree

protocol/spanning-tree/pvst/vlan/priority

Configures the bridge priority.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <pvst>
            <vlan>
                <id>1</id>
                <priority>4096</priority>
            </vlan>
        </pvst>
    </spanning-tree>
</protocol>
```

Parameters

id

Specifies the VLAN ID

priority

Specifies the bridge priortity in increments of 4096. The value can range from

protocol/spanning-tree/rpvst/bridge-priority

Specifies the bridge priority for the common instance.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rpvst>
            <bridge-priority>32768</bridge-priority>
        </rpvst>
    </spanning-tree>
</protocol>
```

Parameters

bridge-priority

Specifies the bridge priority. The values can range from 0 through 61440 in increments of 4096. The default value is 32768

protocol/spanning-tree/rpvst/description

Configures the RPVST Spanning tree description.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rpvst>
            <description>rpvstspan</description>
        </rpvst>
    </spanning-tree>
</protocol>
```

Parameters

decription

Specifies the RPVST Spanning tree description

protocol/spanning-tree/rpvst/error-disable-timeout/enable

Enables the timer to bring the interface out of the error-disabled state.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rpvst>
            <error-disable-timeout>
                <enable></enable>
            </error-disable-timeout>
        </rpvst>
    </spanning-tree>
</protocol>
```

Parameters

enable

Enables the timer to bring the interface out of the error-disabled state

protocol/spanning-tree/rpvst/error-disable-timeout/interval

Configures the timeout for errors on an interface.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rpvst>
            <error-disable-timeout>
                <interval>400</interval>
            </error-disable-timeout>
        </rpvst>
    </spanning-tree>
</protocol>
```

Parameters

interval

Specifies the time for the interface to time out. The value can range from 10 through 1000000 seconds. The default value is 300 seconds

protocol/spanning-tree/rpvst/forward-delay

Specifies the time an interface spends in each of the listening and learning states.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rpvst>
            <forward-delay>20</forward-delay>
        </rpvst>
    </spanning-tree>
</protocol>
```

Parameters

forward-delay

Specifies the time that an interface spends in the RPVST Spanning Tree Protocol (STP) learning and listening states. Valid values range from 4 through 30 seconds. The default value is 15 seconds

protocol/spanning-tree/rpvst/hello-time

Sets the interval between the hello Bridge Protocol Data Units (BPDUs) sent on an interface.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rpvst>
            <hello-time>3</hello-time>
        </rpvst>
    </spanning-tree>
</protocol>
```

Parameters

hello-time

Specifies the time interval between the hello BPDUs sent on an interface. The value can range from 1 through 10 seconds. The default value is 2 seconds

protocol/spanning-tree/rpvst/max-age

Sets the interval time in seconds between messages that the spanning tree receives from the interface.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rpvst>
            <max-age>35</max-age>
        </rpvst>
    </spanning-tree>
</protocol>
```

Parameters

max-age

Configures the Spanning Tree Protocol interface maximum age. The valid value can range from 6 through 40. The default value is 20 seconds

protocol/spanning-tree/rpvst/port-channel

Sets the path-cost behavior.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rpvst>
            <port-channel>
                <path-cost>standard</path-cost>
            </port-channel>
        </rpvst>
    </spanning-tree>
</protocol>
```

Parameters

path-cost

Sets the path cost priority

custom

Specifies to use the custom behavior, which sets the path-cost changes according to the port-channel's bandwidth

standard

Specifies to use the standard behavior, which sets that the path-cost does not change according to port-channel's bandwidth

protocol/spanning-tree/rpvst/shutdown

Disables the Rapid PVST(RPVST) globally.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rpvst>
            <shutdown></shutdown>
        </rpvst>
    </spanning-tree>
</protocol>
```

Parameters

shutdown

Disables the Rapid PVST(RPVST) globally

protocol/spanning-tree/rpvst/transmit-holdcount

Configures the maximum number of Bridge Protocol Data Units (BPDUs) transmitted per second for the R-PVST+.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rpvst>
            <transmit-holdcount>5</transmit-holdcount>
        </rpvst>
    </spanning-tree>
</protocol>
```

Parameters

transmit-holdcount

Specifies the number of BPDUs than can be sent before pausing for 1 second. The value can range from 1 through 10. The default value is 6 units

protocol/spanning-tree/rpvst/vlan/forward-delay

Configures the forward-delay for RPVST spanning tree.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rpvst>
            <vlan>
                <id>1</id>
                <forward-delay>20</forward-delay>
            </vlan>
        </rpvst>
    </spanning-tree>
</protocol>
```

Parameters

id

Specifies the VLAN ID

forward-delay

Specifies the forward delay time in seconds. The value can range from 4 to 30 seconds. The default value is 15 seconds

protocol/spanning-tree/rpvst/vlan/hello-time

Configures the hello interval for the RPVST spanning tree.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rpvst>
            <vlan>
                <id>1</id>
                <hello-time>3</hello-time>
            </vlan>
        </rpvst>
    </spanning-tree>
</protocol>
```

Parameters

id

Specifies the VLAN ID

hello-time

Specifies the hello interval. The interval can range from 4 to 30 seconds. The default value is 2 seconds

protocol/spanning-tree/rpvst/vlan/max-age

Configures the max-age for the RPVST spanning tree.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rpvst>
            <vlan>
                <id>1</id>
                <max-age>25</max-age>
            </vlan>
        </rpvst>
    </spanning-tree>
</protocol>
```

Parameters

id

Specifies the VLAN ID

max-age

Specifies the max-age for the RPVST spanning tree

protocol/spanning-tree/rpvst/vlan/priority

Configures the bridge priority.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rpvst>
            <vlan>
                <id>1</id>
                <priority>4096</priority>
            </vlan>
        </rpvst>
    </spanning-tree>
</protocol>
```

Parameters

id

Specifies the VLAN ID

priority

Specifies the bridge priortity in increments of 4096. The value can range from

protocol/spanning-tree/rstp/bridge-priority

Specifies the bridge priority for the common instance.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rstp>
            <bridge-priority>32768</bridge-priority>
        </rstp>
    </spanning-tree>
</protocol>
```

Parameters

bridge-priority

Specifies the bridge priority. The values can range from 0 through 61440 in increments of 4096. The default value is 32768

protocol/spanning-tree/rstp/description

Configures the Rapid Spanning tree (RSTP) description.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rstp>
            <description>rstpspan</description>
        </rstp>
    </spanning-tree>
</protocol>
```

Parameters

description

Specifies the RPVST Spanning tree description

protocol/spanning-tree/rstp/error-disable-timeout/enable

Enables the timer to bring the interface out of the error-disabled state.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rstp>
            <error-disable-timeout>
                <enable></enable>
            </error-disable-timeout>
        </rstp>
    </spanning-tree>
</protocol>
```

Parameters

enable

Enables the timer to bring the interface out of the error-disabled state

protocol/spanning-tree/rstp/error-disable-timeout/interval

Configures the timeout for errors on an interface.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rstp>
            <error-disable-timeout>
                <interval>500</interval>
            </error-disable-timeout>
        </rstp>
    </spanning-tree>
</protocol>
```

Parameters

interval

Specifies the time for the interface to time out. The value can range from 10 through 1000000 seconds. The default value is 300 seconds

protocol/spanning-tree/rstp/forward-delay

Specifies the time an interface spends in each of the listening and learning states.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rstp>
            <forward-delay>30</forward-delay>
        </rstp>
    </spanning-tree>
</protocol>
```

Parameters

forward-delay

Specifies the time that an interface spends in the RPVST Spanning Tree Protocol (STP) learning and listening states. Valid values range from 4 through 30 seconds. The default value is 15 seconds

protocol/spanning-tree/rstp/hello-time

Sets the interval between the hello Bridge Protocol Data Units (BPDUs) sent on an interface.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rstp>
            <hello-time>4</hello-time>
        </rstp>
    </spanning-tree>
</protocol>
```

Parameters

hello-time

Specifies the time interval between the hello BPDUs sent on an interface. The value can range from 1 through 10 seconds. The default value is 2 seconds

protocol/spanning-tree/rstp/max-age

Sets the interval time in seconds between messages that the spanning tree receives from the interface.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rstp>
            <max-age>40</max-age>
        </rstp>
    </spanning-tree>
</protocol>
```

Parameters

max-age

Specifies the Rapid Spanning Tree Protocol interface maximum age. The valid value can range from 6 through 40. The default value is 20 seconds

protocol/spanning-tree/rstp/port-channel

Sets the path-cost behavior.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rpvst>
            <port-channel>
                <path-cost>standard</path-cost>
            </port-channel>
        </rpvst>
    </spanning-tree>
</protocol>
```

Parameters

path-cost

Sets the path cost priority

custom

Specifies to use the custom behavior, which sets the path-cost changes according to the port-channel's bandwidth

standard

Specifies to use the standard behavior, which sets that the path-cost does not change according to port-channel's bandwidth

protocol/spanning-tree/rstp/shutdown

Disables the Rapid Spanning Tree Protocol (RSTP) globally.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rstp>
            <shutdown></shutdown>
        </rstp>
    </spanning-tree>
</protocol>
```

Parameters

shutdown

Disables the Rapid Spanning Tree Protocol (RSTP) globally

protocol/spanning-tree/rstp/transmit-holdcount

Configures the maximum number of Bridge Protocol Data Units (BPDUs) transmitted per second for the RSTP.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rpvst>
            <transmit-holdcount>5</transmit-holdcount>
        </rpvst>
    </spanning-tree>
</protocol>
```

Parameters

transmit-holdcount

Specifies the number of BPDUs than can be sent before pausing for 1 second. The value can range from 1 through 10. The default value is 6 units

protocol/spanning-tree/stp/bridge-priority

Specifies the bridge priority for the common instance.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <stp>
            <bridge-priority>32768</bridge-priority>
        </stp>
    </spanning-tree>
</protocol>
```

Parameters

bridge-priority

Specifies the bridge priority. The values can range from 0 through 61440 in increments of 4096. The default value is 32768

protocol/spanning-tree/stp/description

Configures the STP Spanning tree description.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <stp>
            <description>stpspan</description>
        </stp>
    </spanning-tree>
</protocol>
```

Parameters

description

Specifies the STP Spanning tree description

protocol/spanning-tree/stp/error-disable-timeout/enable

Enables the timer to bring the interface out of the error-disabled state.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <stp>
            <error-disable-timeout>
                <enable></enable>
            </error-disable-timeout>
        </stp>
    </spanning-tree>
</protocol>
```

Parameters

enable

Enables the timer to bring the interface out of the error-disabled state

protocol/spanning-tree/stp/error-disable-timeout/interval

Configures the timeout for errors on an interface.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <rstp>
            <error-disable-timeout>
                <interval>550</interval>
            </error-disable-timeout>
        </rstp>
    </spanning-tree>
</protocol>
```

Parameters

interval

Specifies the time for the interface to time out. The value can range from 10 through 1000000 seconds. The default value is 300 seconds

protocol/spanning-tree/stp/forward-delay

Specifies the time an interface spends in each of the listening and learning states.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <stp>
            <forward-delay>30</forward-delay>
        </stp>
    </spanning-tree>
</protocol>
```

Parameters

forward-delay

Specifies the time that an interface spends in the RPVST Spanning Tree Protocol (STP) learning and listening states. Valid values range from 4 through 30 seconds. The default value is 15 seconds

protocol/spanning-tree/stp/hello-time

Sets the interval between the hello Bridge Protocol Data Units (BPDUs) sent on an interface.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <stp>
            <hello-time>5</hello-time>
        </stp>
    </spanning-tree>
</protocol>
```

Parameters

hello-time

Specifies the time interval between the hello BPDUs sent on an interface. The value can range from 1 through 10 seconds. The default value is 2 seconds

protocol/spanning-tree/stp/max-age

Sets the interval time in seconds between messages that the spanning tree receives from the interface.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <stp>
            <max-age>40</max-age>
        </stp>
    </spanning-tree>
</protocol>
```

Parameters

max-age

Specifies the Rapid Spanning Tree Protocol interface maximum age. The valid value can range from 6 through 40. The default value is 20 seconds

protocol/spanning-tree/stp/port-channel

Sets the path-cost behavior.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <stp>
            <port-channel>
                <path-cost>standard</path-cost>
            </port-channel>
        </stp>
    </spanning-tree>
</protocol>
```

Parameters

path-cost

Sets the path cost priority

custom

Specifies to use the custom behavior, which sets the path-cost changes according to the port-channel's bandwidth

standard

Specifies to use the standard behavior, which sets that the path-cost does not change according to port-channel's bandwidth

protocol/spanning-tree/stp/shutdown

Disables the STP Spanning Tree Protocol globally.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
        <stp>
            <shutdown></shutdown>
        </stp>
    </spanning-tree>
</protocol>
```

Parameters

shutdown

Disables the STP Spanning Tree Protocol globally

protocol/udld

Enables unidirectional link detection (UDLD) protocol configuration mode.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <udld xmlns="urn:brocade.com:mgmt:brocade-udld"></udld>
</protocol>
```

protocol/udld/hello

Configures the hello transmit interval.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <udld xmlns="urn:brocade.com:mgmt:brocade-udld">
        <hello>20</hello>
    </udld>
</protocol>
```

Parameters

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).

protocol/udld/multiplier

Configures the timeout multiplier for missed UDLD PDUs.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <udld xmlns="urn:brocade.com:mgmt:brocade-udld">
        <multiplier>3</multiplier>
    </udld>
</protocol>
```

Parameters

multiplier

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

protocol/udld/shutdown

Disables the unidirectional link detection (UDLD) protocol on all ports without affecting configuration.

Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <udld xmlns="urn:brocade.com:mgmt:brocade-udld">
        <shutdown></shutdown>
    </udld>
</protocol>
```

Parameters

shutdown

Disables UDLD protocol on all ports without affecting configuration

qos/map/cos-mutation

Configures CoS-to-CoS mutation Quality of Service map.

Usage

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos">
    <map>
        <cos-mutation>
            <name>map1</name>
            <cos0>1</cos0>
            <cos1>2</cos1>
            <cos2>1</cos2>
            <cos3>2</cos3>
            <cos4>1</cos4>
            <cos5>2</cos5>
            <cos6>1</cos6>
            <cos7>2</cos7>
        </cos-mutation>
    </map>
</qos>
```

Parameters

name

Specifies cos-mutation map name

qos/map/dscp-qos

Configures Dscp-to-CoS mutation Quality of Service map.

Usage

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos">
    <map>
        <dscp-cos>
            <dscp-cos-map-name>map3</dscp-cos-map-name>
        </dscp-cos>
    </map>
</qos>
```

Parameters

dscp-cos-map-name

Specifies Dscp-to-CoS mutation map name

qos/map/dscp-qos/{map-name}/mark

Maps DSCP values to CoS value.

Usage

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos">
    <map>
        <dscp-cos>
            <dscp-cos-map-name>map3</dscp-cos-map-name>
            <mark>
                <dscp-in-values>5</dscp-in-values>
                <to>1</to>
            </mark>
        </dscp-cos>
    </map>
</qos>
```

Parameters

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

to

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

qos/map/dscp-mutation

Configures Dscp-to-Dscp mutation Quality of Service map.

Usage

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos">
    <map>
        <dscp-mutation>
            <dscp-mutation-map-name>map4</dscp-mutation-map-name>
        </dscp-mutation>
    </map>
</qos>
```

Parameters

dscp-mutation-map-name

Specifies Dscp-to-Dscp mutation map name

qos/map/dscp-mutation/{map-name}/mark

Maps DSCP values to outbound DSCP value.

Usage

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos">
    <map>
        <dscp-mutation>
            <dscp-mutation-map-name>map4</dscp-mutation-map-name>
            <mark>
                <dscp-in-values>10</dscp-in-values>
                <to>2</to>
            </mark>
        </dscp-mutation>
    </map>
</qos>
```

Parameters

dscp-mutation-map-name

Specifies DSCP mutatiion 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

qos/map/dscp-traffic-class

Configures DSCP traffic class.

Usage

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos">
    <map>
        <dscp-traffic-class>
            <dscp-traffic-class-map-name>map5</dscp-traffic-class-map-name>
        </dscp-traffic-class>
    </map>
</qos>
```

Parameters

dscp-traffic-class-map-name

Specifies DSCP traffic class map name

qos/map/dscp-traffic-class/{map-name}/mark

Maps DSCP values to traffic class value.

Usage

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos">
    <map>
        <dscp-traffic-class>
            <dscp-traffic-class-map-name>map5</dscp-traffic-class-map-name>
            <mark>
                <dscp-in-values>15</dscp-in-values>
                <to>3</to>
            </mark>
        </dscp-traffic-class>
    </map>
</qos>
```

Parameters

dscp-traffic-class-map-name

Specifies dscp traffic class name name

dscp-in-values

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

to

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

qos/red-profile

Configures RED profiles.

Usage

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos">
    <red-profile>
        <profile-id>2</profile-id>
        <min-threshold>50</min-threshold>
        <max-threshold>75</max-threshold>
        <drop-probability>10</drop-probability>
    </red-profile>
</qos>
```

Parameters

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 maximium 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

qos/service-policy

Attachs input policy map.

Usage

```
<system-qos xmlns="urn:brocade.com:mgmt:brocade-policer">
    <qos>
        <service-policy>
            <direction>in</direction>
            <policy-map-name>policymap5</policy-map-name>
        </service-policy>
    </qos>
</system-qos>
```

Parameters

direction

Specifies input policy

policy-map-name

Specifies QoS policy map name

qos/service-policy/{policy-name}/attach

Configures attachments for the policy map.

Usage

```
<system-qos xmlns="urn:brocade.com:mgmt:brocade-policer">
    <qos>
        <service-policy>
            <direction>in</direction>
            <policy-map-name>policymap1</policy-map-name>
            <attach>
                <rbridge-id>
                    <add>
                        <rb-add-range>1-2</rb-add-range>
                    </add>
                </rbridge-id>
            </attach>
        </service-policy>
    </qos>
</system-qos>
```

Parameters

direction

Specifies input policy

policy-map-name

Specifies policy map name

rb-add-range

Adds RBridges on which the QoS policy must be activated

radius-server

Configures a RADIUS server for AAA.

Usage

```
<radius-server xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <host>
        <hostname>1.1.1.1</hostname>
        <auth-port>1812</auth-port>
        <protocol>chap</protocol>
        <key>Yf0BKEhsc83gp+kIoGMQ/g==</key>
        <encryption-level>7</encryption-level>
        <retries>6</retries>
        <timeout>10</timeout>
    </host>
</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

protocol

Specifies the authentication protocol to be used. Three protocol options are available

chap

pap

peap

key

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

encryption-level

Specifies the encryption level. Encrytion level can be set to

0

Stores the key in clear text format

7

Stores the key in encrypted format

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 the wait time for this server to respond. The value can range from 1 through 60 seconds. The default value is 5 seconds

History

Release version	History
7.0.0	This Netconf call was modified the include the parameter *use-vrf*.

rbridge-id/{rbridge-number}/ag/counter/reliability

Configures the reliability counter for the N_Port Monitoring feature under Access Gateway.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ag xmlns="urn:brocade.com:mgmt:brocade-ag">
        <counter>
            <reliabilitycountervalue>25</reliabilitycountervalue>
        </counter>
    </ag>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

reliabilitycountervalue

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

rbridge-id/{rbridge-number}/ag/enable

Enables Access Gateway mode on a switch as follows: Enables FC ports, configures them as N_Ports, and then maps them to VF_Ports.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ag xmlns="urn:brocade.com:mgmt:brocade-ag">
        <enable></enable>
    </ag>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

enable

Enables Access Gateway mode on a switch

rbridge-id/{rbridge-number}/ag/nport/interface/fiberchannel/map/fport/interface/fcoe

Maps VF_Ports to N_Ports in Access Gateway (AG) mode and removes VF_Port to N_Port mapping.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ag xmlns="urn:brocade.com:mgmt:brocade-ag">
        <nport-menu>
            <nport-interface>
                <nport>
                    <agNPortNb>1/0/5</agNPortNb>
                    <map>
                        <map-fport>
                            <map-fport-interface></map-fport-interface>
                            <fc-port>1/2/26</fc-port>
                        </map-fport>
                    </map>
                </nport>
            </nport-interface>
        </nport-menu>
    </ag>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

agNPortNb

Specifies the port

fc-port

Specifies the VF_Port number

rbridge-id/{rbridge-number}/ag/pg

Creates an N_Port group under Access Gateway configuration mode.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ag xmlns="urn:brocade.com:mgmt:brocade-ag">
        <pg>
            <pgid>0</pgid>
        </pg>
    </ag>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

pgid

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

rbridge-id/{rbridge-number}/ag/pg/{pg-id}/modes

Enables operating modes for port groups for Access Gateway mode.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ag xmlns="urn:brocade.com:mgmt:brocade-ag">
        <pg>
            <pgid>0</pgid>
            <modes>lb</modes>
        </pg>
    </ag>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

pgid

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

modes

Specifies the mode name

lb

Login Balancing (LB) is the only mode that you can enable

rbridge-id/{rbridge-number}/ag/pg/{pg-id}/nport/interface/fibrechannel

Under Access Gateway, adds or deletes N_Ports from a port group.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ag xmlns="urn:brocade.com:mgmt:brocade-ag">
        <pg>
            <pgid>0</pgid>
            <nport-menu>
                <nport-interface>
                    <nport>
                        <agNPortNb>1/0/5</agNPortNb>
                    </nport>
                </nport-interface>
            </nport-menu>
        </pg>
    </ag>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

pgid

Specifies the PG ID

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

rbridge-id/{rbridge-number}/ag/pg/{pg-id}/rename

Configures a name for a port group or renames a port group in Access Gateway mode.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ag xmlns="urn:brocade.com:mgmt:brocade-ag">
        <pg>
            <pgid>0</pgid>
            <rename>pg0</rename>
        </pg>
    </ag>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

pgid

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

rename

Specifies the Port group name

rbridge-id/{rbridge-number}/ag/timeout

Configures the fabric name monitoring time-out value (TOV) for Modified Managed Fabric Name Monitoring (M-MFNM) mode under Access Gateway.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ag xmlns="urn:brocade.com:mgmt:brocade-ag">
        <timeout>
            <fnmtovalue>120</fnmtovalue>
        </timeout>
    </ag>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

fnmtovalue

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

rbridge-id/{rbridge-number}/arp

Configures Address Resolution Protocol (ARP) parameters.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <arp-entry xmlns="urn:brocade.com:mgmt:brocade-arp">
        <arp-ip-address>1.1.1.1</arp-ip-address>
        <mac-address-value>0011.1122.2233</mac-address-value>
        <interfacename>interface</interfacename>
        <TenGigabitEthernet>1/0/5</TenGigabitEthernet>
    </arp-entry>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

arp-ip-address

Specifies the IP adress of the ARP entry

mac-address-value

Specidfies the MAC address in HHHH.HHHH.HHHH format

interfacename

Specifies the interface to use

rbridge-id/{rbridge-number}/bfd-session-setup-delay

Configures BFD desired session setup delay.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <bfd-session-setup-delay xmlns="urn:brocade.com:mgmt:brocade-bfd">
        <delay>10</delay>
    </bfd-session-setup-delay>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

delay

Specifies the BFD required time delay before establishing the session. The value can range from 5 through 600 seconds

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/bp-rate-limit/heavy/module

Configures the blade processor (bp) rate limit as heavy for one or more slots. Implementing the heavy setting—by entering this command—might reduce the amount of trapped traffic.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <bp-rate-limit xmlns="urn:brocade.com:mgmt:brocade-bprate-limit">
        <heavy>
            <module>
                <add>0</add>
            </module>
        </heavy>
    </bp-rate-limit>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

add

Specifies the blade processor to add

rbridge-id/{rbridge-number}/chassis/virtual-ip

Sets the IPv4 address of a switch chassis.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <chassis xmlns=""urn:brocade.com:mgmt:brocade-chassis"">
        <virtual-ip>10.20.237.246/20</virtual-ip
    </chassis>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

virtual-ip

Sets an IPv4 address in dotted-decimal notation with a CIDR prefix (mask)

rbridge-id/{rbridge-number}/chassis/virtual-ipv6

Sets the IPv6 address of a switch chassis.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <chassis xmlns=""urn:brocade.com:mgmt:brocade-chassis"">
        <virtual-ipv6>2620:100:0:fa09::f8a8/64</virtual-ipv6>
    </chassis>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

virtual-ipv6

Sets an IPv6 address in colon-separated hexadecimal notation with a CIDR prefix

rbridge-id/{rbridge-number}/clock/timezone

Configures the time zone based on region and longitudinal city.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <clock xmlns="urn:brocade.com:mgmt:brocade-clock">
        <timezone>Etc/GMT</timezone>
    </clock>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

timezone

Specifies the local clock time zone

rbridge-id/{rbridge-number}/crypto/ca/trustpoint

Defines the trust point for HTTPS security configuration.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <crypto xmlns="urn:brocade.com:mgmt:brocade-crypto">
        <ca>
            <trustpoint>trust1</trustpoint>
        </ca>
    </crypto>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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.

rbridge-id/{rbridge-number}/crypto/ca/trustpoint/{trustpoint-name}/keypair

Associates the generated RSA/ECDSA/DSA key pair with a trust point for security protocol exchanges for applications.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <crypto xmlns="urn:brocade.com:mgmt:brocade-crypto">
        <ca>
            <trustpoint>trust1</trustpoint>
            <keypair>key_label</keypair>
        </ca>
    </crypto>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

rbridge-id/{rbridge-number}/crypto/key

Generates an RSA/ECDSA/DSA key pair to sign or encrypt and decrypt the security payload during security protocol exchanges for applications.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <crypto xmlns="urn:brocade.com:mgmt:brocade-crypto">
        <key>
            <label>key_label</label>
            <type>rsa</type>
            <modulus>2048</modulus>
        </key>
    </crypto>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

label

Specifies the name of the key pair

type

Specifies the type of the key pair

rsa

Generates an RSA key pair

ecdsa

Generates an ECDSA key pair

dsa

Generates a DSA key pair

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

rbridge-id/{rbridge-number}/default-config enable

Allows the switch to always reboot with its default configuration and rejoin the cluster after a reboot.The switch obtains its configuration from the principal node. Enabling this feature solves most nodesegmentation issues.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <default-config-enable></default-config-enable>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

default-config-enable

Enables the switch to always reboot with its default configuration

rbridge-id/{rbridge-number}/event-handler/activate

Activates an event handler on an RBridge and accesses event-handler activation mode, from which you can enter advanced configuration commands.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <activate>
        <event-handler =xmlns="urn:brocade.com:mgmt:brocade-event-handler">
        <name>eventHandler1</name>
    </activate>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the name of the event-handler profile. The value can have from 1 through 32 characters. The first character must be alphabetic

rbridge-id/{rbridge-number}/event-handler/activate/{eventhandler-name}/delay

Configures the delay time that the event-handler will wait for the initial launch of the action after the trigger has been received.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <activate>
        <event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler">
            <name>eventHandler1</name>
            <delay>1</delay>
    </activate>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the name of the event-handler profile. The value can have from 1 through 32 characters. The first character must be alphabetic

delay

Specifies the number of seconds from when a trigger is received until the execution of the specified action begins. The value can be 0 or a positive integer

rbridge-id/{rbridge-number}/event-handler/activate/{eventhandler-name}/interval

Configures the time interval that the event-handler will wait between iterations of completing the previous action.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <activate>
        <event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler">
            <name>eventHandler1</name>
            <interval>0</interval>
        </event-handler>
    </activate>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the name of the event-handler profile. The values can have from 1 through 32 characters. The first character must be alphabetic

interval

Specifies the number of seconds between iterations of an event-handler action, if triggered. The values can be 0 or a positive integer. The default interval is 0

rbridge-id/{rbridge-number}/event-handler/activate/{eventhandler-name}/iterations

Configures the number of times to launch the action after the initial trigger has been received.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <activate>
        <event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler">
            <name>eventHandler1</name>
            <iterations>1</iterations>
        </event-handler>
    </activate>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the name of the event-handler profile. The values can range from 1 through 32 characters. The first character must be alphabetic

iterations

Specifies the number of times an event-handler action is run, when triggered. Ther values can be any positive integer. The default value is 1

rbridge-id/{rbridge-number}/event-handler/activate/{eventhandler-name}/run-mode

Sets the run-mode controls. Sets how the action is launched with cluster formation.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <activate>
        <event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler">
            <name>eventHandler1</name>
            <run-mode>exclusive</run-mode>
        </event-handler>
    </activate>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the name of the event-handler profile. The value van range from 1 through 32 characters. The first character must be alphabetic

run-mode

Specifies if a triggered event-handler action is run in exclusive or non-exclusive mode.

exclusive

Action will be exclusively launched and will not be interrupted by cluster formation events

non-exclusive

Action will be non- exclusively launched and cluster formation can occur simultaneously. This is the default setting

rbridge-id/{rbridge-number}/event-handler/activate/{eventhandler-name}/trigger-function

Trigger-function controls how multiple triggers are interrupted to launch the action.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id
    <activate>
        <event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler">
            <name>eventHandler1</name>
            <trigger-function>AND</trigger-function>
        </event-handler>
    </activate>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the name of the event-handler profile. The values can be from 1 through 32 characters. The first character must be alphabetic

trigger-function

For an implementation of an event-handler profile on an RBridge, if multiple triggers are defined for an event-handler action, specifies if the action runs only if all of the triggers occur; or if one is sufficient

OR

The event-handler action runs if any of the triggers occur

AND

The event-handler action runs only if all of the triggers occur

rbridge-id/{rbridge-number}/event-handler/activate/{eventhandler-name}/trigger-mode

Trigger-mode controls how the action is launched with the configured event trigger.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <activate>
        <event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler">
            <name>eventHandler1</name>
            <trigger-mode>on-first-instance</trigger-mode>
        </event-handler>
    </activate>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the name of the event-handler profile. The values can be from 1 through 32 characters. The first character must be alphabetic

trigger-mode

Specifies if an event-handler action can be triggered only once or more than once. The default is each time the trigger condition occurs, the event-handler action is launched

each-instance

The event-handler action is launched on each trigger instance received

on-first-instance

As long as the switch is running, the event-handler action is launched only once. Following a switch restart, the event-handler action can be triggered again

only-once

For the duration of a switch's configuration, the event-handler action is launched only once

rbridge-id/{rbridge-number}/evpn-instance

Configures an Ethernet Virtual Private Network (EVPN) instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">
        <instance-name>evpn1</instance-name>
    </evpn-instance>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

instance-name

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

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/df-delay-timer

Configures the designated forwarder (DF) delay timer.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">
        <instance-name>evpn1</instance-name>
        <df-delay-timer>4</df-delay-timer>
    </evpn-instance>
</rbridge-id
```

Parameters

rbridge-id

Specifies the RBridge ID

instance-name

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

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

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/duplicate-mac-timer

Configures the timer interval and count for duplicate MAC detection.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">
        <instance-name>evpn1</instance-name>
        <duplicate-mac-timer>
            <duplicate-mac-timer-value>10</duplicate-mac-timer-value>
            <max-count>4</max-count>
        </duplicate-mac-timer>
    </evpn-instance>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

instance-name

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

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

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/rd/auto

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

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">
        <instance-name>evpn1</instance-name>
        <route-distinguisher>
            <auto></auto>
        </route-distinguisher>
    </evpn-instance>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

instance-name

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

auto

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

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/route-target/both

Imports and exports the routes for the router-id for an Ethernet Virtual Private Network (EVPN) instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">
        <instance-name>evpn1</instance-name>
        <route-target>
            <both>
                <target-community>auto</target-community>
                <ignore-as></ignore-as>
            </both>
        </route-target>
    </evpn-instance>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/route-target/export

Exports the routes for the router-id for an Ethernet Virtual Private Network (EVPN) instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">
        <instance-name>evpn1</instance-name>
        <route-target>
            <export>
                <target-community>auto</target-community>
            </export>
        </route-target>
    </evpn-instance>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

instance-name

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

target-community

Specifies auto-generation of the export route-target community attribute

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/route-target/import

Imports the routes for the router-id for an Ethernet Virtual Private Network (EVPN) instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">
        <instance-name>evpn1</instance-name>
        <route-target>
            <import>
                <target-community>auto</target-community>
                <ignore-as></ignore-as>
            </import>
        </route-target>
    </evpn-instance>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

instance-name

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

target-community

Specifies auto-generation of the import route-target community attribute

ignore-as

Specifies that the autonomous system (AS) number be ignored

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/vni

Configures a VNI.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">
        <instance-name>evpn1</instance-name>
        <vni>
            <evpn-vni>
                <vni-number>1</vni-number>
            </evpn-vni>
        </vni>
    </evpn-instance>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

instance-name

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

vni-number

Specifies a VNI and enters VNI configuration mode. The value can range from 1 through 16777215

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/vni/{add | remove}

Adds and removes VLANS for an EVPN instance and enters VNI configuration mode.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>106</rbridge-id>
    <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">
        <instance-name>evpn1</instance-name>
        <vni>
            <vni-add>
                <add>1</add>
            </vni-add>
        </vni>
    </evpn-instance>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge iD

instance-name

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

add

Adds a range of VLANs to this EVPN instance

remove

Removes a range of VLANs from this EVPN instance

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/vni/{vni-number}/route-target

Imports or exports the routes for a virtual network identifier (VNI) under an EVPN instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">
        <instance-name>myinstance</instance-name>
        <vni>
            <evpn-vni>
                <vni-number>100</vni-number>
                <route-target>
                    <both>
                        <target-community>10.1.1.1:1</target-community>
                    </both>
                </route-target>
            </evpn-vni>
        </vni>
    </evpn-instance>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

instance-name

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

vni-number

Specifies a VNI and enters VNI configuration mode. The value can range from 1 through 16777215

target-community

Specifies the route-target attribute

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/fabric/ecmp/load-balance

Configures the list of hashing fields.

Usage

```
<rbridge xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>2</rbridge-id>
    <fabric xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
        <ecmp>
            <ecmp-load-balance>dst-mac-vid</ecmp-load-balance>
        </ecmp>
    </fabric>
</rbridge>
```

Parameters

rbridge-id

Specifies the RBridge ID

ecmp-load-balance

Specifies the detination load-balancing

dst-mac-vid

Configures the command to use destination MAC address and VID-based load balancing

src-dst-ip

Configures the command to use source and destination IP address-based load balancing

src-dst-ip-mac-vid

Configures the command to use source and destination IP and MAC address and VID-based load balancing

src-dst-ip-mac-vid-port

Configures the command to use source and destination IP, MAC address, VID and TCP/UDP port-based load balancing

src-dst-ip-port

Configures the command to use source and destination IP and TCP/UDP portbased load balancing

src-dst-mac-vid

Configures the command to use source and destination MAC address and VIDbased load balancing

src-mac-vid

Configures the command to use source MAC address and VID-based load balancing

rbridge-id/{rbridge-number}/fabric/ecmp/load-balance-hash-swap

Configures how to swap the input fields for load balancing.

Usage

```
<rbridge xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>2</rbridge-id>
    <fabric xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
        <ecmp>
            <ecmp-load-balance-hash-swap>4</ecmp-load-balance-hash-swap>
        </ecmp>
    </fabric>
</rbridge>
```

Parameters

rbridge-id

Specifies the RBridge ID

ecmp-load-balance-hash-swap

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

rbridge-id/{rbridge-number}/fabric/login-policy

Configures Duplicate WWN login mode for a particular node or switch in a fabric.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <fabric xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
        <login-policy>
            <duplicateWWN>
                <precedence>old-login</precedence>
            </duplicateWWN>
        </login-policy>
    </fabric>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

precedence

Specifies a login policy

new-login

Configures the new device to log in and clean up the old login

old-login

Configures the old device to retain the login and reject the new login

rbridge-id/{rbridge-number}/fabric/port-channel

Configures the list of hashing fields for balancing the data load on port-channels.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <fabric xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
        <port-channel>
            <po-id>1</po-id>
            <vlag-load-balance>dst-mac-vid</vlag-load-balance>
        </port-channel>
    </fabric>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

po-id

Specifies the Port-channel id

vlag-load-balance

Configures the command to use destination MAC address and VID-based load balancing

dst-mac-vid

Configures the command to use destination MAC address and VID-based load balancing

src-dst-ip

Configures the command to use source and destination IP address-based load balancing

src-dst-ip-mac-vid

Configures the command to use source and destination IP and MAC address and VID-based load balancing

src-dst-ip-mac-vid-port

Configures the command to use source and destination IP, MAC address, VID and TCP/UDP port-based load balancing

src-dst-ip-port

Configures the command to use source and destination IP and TCP/UDP portbased load balancing

src-dst-mac-vid

Configures the command to use source and destination MAC address and VIDbased load balancing

src-mac-vid

Configures the command to use source MAC address and VID-based load balancing

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/enable-peer-as-check

Enables the outbound AS_PATH check function so that a BGP sender speaker does not send routes with an AS path that contains the ASN of the receiving speaker.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
 <rbridge-id>2</rbridge-id>
   <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
     <router-bgp-attributes>
      <address-family>
       <ipv4>
        <ipv4-unicast>
          <default-vrf>
           <default-vrf-selected></default-vrf-selected>
             <neighbor>
               <af-ipv4-neighbor-address-holder>
                 <af-ipv4-neighbor-address>
                   <af-ipv4-neighbor-address>10.1.1.1</af-ipv4-neighbor-address>
                    <enable-peer-as-check></enable-peer-as-check>
                  </af-ipv4-neighbor-address>
               </af-ipv4-neighbor-address-holder>
             </neighbor>
         </address-family>
      </router-bgp>
   </router>
</rbridge-id>
```

Parameters

af-ipv4-neighbor-address

Specifies the IPv4 address of the neighbor

History

Release version	History
7.0.1	This Netconf call was introduced.

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

Configures routing related parameters.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <fabric xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
        <route>
            <mcast>
                <priority>1</priority>
            </mcast>
        </route>
    </fabric>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

priority

Specifies multicast routing information priority

rbridge-id/{rbridge-number}/fcoe/fcoe-enodes

Configures the number of FCoE ENodes that are to be created on a switch.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <fcoe-config xmlns="urn:brocade.com:mgmt:brocade-fcoe">
        <fcoe-enode-fabric-map>
            <fcoe-enode-fabric-map-name>default</fcoe-enode-fabric-map-name>
        </fcoe-enode-fabric-map>
        <fcoe-max-enode>0</fcoe-max-enode>
    </fcoe-config>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

fcoe-enode-fabric-map-name

Specifies the FCoE fabric map name. The default name is default

fcoe-max-enode

Specifies the number of FCoE interfaces. The value can range from 0 through 1000

rbridge-id/{rbridge-number}/fcsp/auth/auth-type

Configures the authentication type.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <fcsp xmlns="urn:brocade.com:mgmt:brocade-fc-auth">
        <auth>
            <proto>
                <auth-type>dh-chap</auth-type>
            </proto>
        </auth>
    </fcsp>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

auth-type

Specifies the authentication type

dh-chap

Authentication type is DH-CHAP

rbridge-id/{rbridge-number}/fcsp/auth/group

Configures the DH group value

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <fcsp xmlns="urn:brocade.com:mgmt:brocade-fc-auth">
        <auth>
            <proto>
                <group>*</group>
            </proto>
        </auth>
    </fcsp>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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 *

rbridge-id/{rbridge-number}/fcsp/auth/hash

Configures the hash type used for authentication

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <fcsp xmlns="urn:brocade.com:mgmt:brocade-fc-auth">
        <auth>
            <proto>
                <hash>all</hash>
            </proto>
        </auth>
    </fcsp>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

hash

Specifies the hash type used for authentication

sha1

md5

all

This is the default setting

rbridge-id/{rbridge-number}/fcsp/auth/policy

Configures the switch authentication policy attribute.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <fcsp xmlns="urn:brocade.com:mgmt:brocade-fc-auth">
        <auth>
            <policy>
                <switch>passive</switch>
            </policy>
        </auth>
    </fcsp>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

switch

Specifies the switch authentication policy attribute

on

off

active

pasive

The default switch policy is passive

rbridge-id/{rbridge-number}/filter-change-update-delay

Changes the delay in the filter-change status prompt from the default.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <filter-change-update-delay xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <filter-delay-value>10</filter-delay-value>
    </filter-change-update-delay>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

filter-delay-value

Specifies the delay, in seconds, in the filter-change status prompt. The value can range from 0 through 600

rbridge-id/{rbridge-number}/hardware-profile/kap

Optimizes hardware resources for Keep-Alive Protocol (KAP) profiles.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <hardware-profile xmlns="urn:brocade.com:mgmt:brocade-hardware">
        <kap>
            <predefined>
                <kap_profiletype>default</kap_profiletype>
            </predefined>
        </kap>
    </hardware-profile>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

kap_profiletype

Optimizes hardware resources for KAP profiles, to support hitless failover for the supported protocols

custom-profile *name*

Specifies a custom profile

default

Optimizes basic support for all applications

rbridge-id/{rbridge-number}/hardware-profile/route-table

Optimizes hardware resources for route profiles.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <hardware-profile xmlns="urn:brocade.com:mgmt:brocade-hardware">
        <route-table>
            <predefined>
                <routing_profiletype>ipv4-max-arp</routing_profiletype>
                <routing_parameter>
                    <maximum_paths>16</maximum_paths>
                    <openflow_enable>off</openflow_enable>
                </routing_parameter>
            </predefined>
        </route-table>
    </hardware-profile>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

routing_profiletype

Optimizes hardware resources for route profiles

default

Optimizes IPv4/IPv6 resources for dual-stack operations

ipv4-max-arp

Optimizes resources for the maximum number of IPv4 ARP entries

ipv4-max-route

Optimizes resources for the maximum number of IPv4 routes

ipv4-min-v6

Optimizes resources for IPv4 routes in dual-stack configurations

ipv6-max-nd

Optimizes resources for the maximum number of IPv6 Neighbor Discovery entries

ipv6-max-route

Optimizes resources for the maximum number of IPv6 routes

maximum_paths

Specifies 8, 16, or 32 maximum paths

openflow_enable

Enables or disables OpenFlow support

off

Disables OpenFlow

on

Enables OpenFlow

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

Optimizes hardware resources for ternary content-addressable memory (TCAM) profiles.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <hardware-profile xmlns="urn:brocade.com:mgmt:brocade-hardware">
        <tcam>
            <predefined>
                <tcam_profiletype>ipv4-v6-mcast</tcam_profiletype>
            </predefined>
        </tcam>
    </hardware-profile>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

tcam_profiletype

Optimizes hardware resources for TCAM profiles

default

Optimizes resources with basic support for all applications

dyn-arp-insp

Optimizes resources for dynamic ARP inspection (DAI)

ipv4-v6-mcast

Optimizes resources for multicast

ipv4-v6-pbr

Optimizes resources for IPv4 and IPv6 ACLs and policy-based routing tables

ipv4-v6-qos

Optimizes resources for IPv4 and IPv6 ACLs and QoS

l2-acl-qos

Optimizes resources for Layer 2 ACLs and QoS

l2-ipv4-acl

Optimizes resources for Layer 2 IPv4 ACLs

openflow

Optimizes for OpenFlow support

rbridge-id/{rbridge-number}/hardware-profile/vlan-classification

Optimizes hardware resources for VLAN classification.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>5</rbridge-id>
    <hardware-profile xmlns="urn:brocade.com:mgmt:brocade-hardware">
        <vlan-classification>
            <predefined>
                <vlan_profiletype>default</vlan_profiletype>
            </predefined>
        </vlan-classification>
    </hardware-profile>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vlan_profiletype

Specifies the VLAN profile type

aggregator-basic

Optimizes hardware resources for basic support for all applications

aggregator-virtualfabric

Optimizes hardware resources for aggregation nodes for Virtual Fabrics

aggregator-vxlan-gw

Optimizes hardware resources for aggregation nodes for VXLAN gateways

default

Optimizes hardware resources for basic support for all applications

tor-virtualfabric

Optimizes hardware resources for Top of Rack (ToR) for Virtual Fabrics

tor-vxlan-gw

Optimizes hardware resources for ToR for VXLAN gateways

rbridge-id/{rbridge-number}/http/server/shutdown

Disables HTTP/HTTPS service.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <http xmlns="urn:brocade.com:mgmt:brocade-http">
        <server>
            <shutdown></shutdown>
        </server>
    </http>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

shutdown

Disables HTTP/HTTPS service

rbridge-id/{rbridge-number}/http/server/use-vrf

Shuts down the server on the VRF.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <http xmlns="urn:brocade.com:mgmt:brocade-http">
        <server>
            <http-vrf-cont>
                <use-vrf>
                    <use-vrf-name>mgmt-vrf</use-vrf-name>
                    <http-vrf-shutdown></http-vrf-shutdown>
                </use-vrf>
            </http-vrf-cont>
        </server>
    </http>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

use-vrf-name

Specifies a user-defined VRF

http-vrf-shutdown

Shuts down the user-defined VRF

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/host-table/aging-mode

Enables conversational address-resolution protocol (ARP) and conversational neighbor discovery (ND). Such enablement reduces ARP/ND control traffic.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <host-table xmlns="urn:brocade.com:mgmt:brocade-arp">
        <aging-mode>
            <conversational></conversational>
        </aging-mode>
    </host-table>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

conversational

Enables conversational ARP and conversational ND

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/host-table/aging-time

Specifies a non-default aging-time value for conversational ARP/ND.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <host-table xmlns="urn:brocade.com:mgmt:brocade-arp">
        <aging-time>
            <conversational-timeout>350</conversational-timeout>
        </aging-time>
    </host-table>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

conversational-timeout

Species the aging-time value for conversational ARP/ND. The value can range from 60 through 100000 seconds. The default value is 300 seconds

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/interface/loopback

Configures a loopback interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>1</id>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/address

Configures IP address of an interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>1</id>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <ip-config>
                    <address>
                        <address>10.1.3.1/32</address>
                    </address>
                </ip-config>
            </ip>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

address

Specifies the IP address

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/active

Sets a specific OSPF interface to active.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <active></active>
                    </ospf-interface-config>
                </interface-loopback-ospf-conf>
            </ip>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

active

Sets a specific OSPF interface to active

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/area

Enables OSPF on an interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <area>0</area>
                    </ospf-interface-config>
                </interface-loopback-ospf-conf>
            </ip>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

area

Specifies the area address

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/auth-change-wait-time

Configures authentication-change hold time.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <auth-change-wait-time>10</auth-change-wait-time>
                    </ospf-interface-config>
                </interface-loopback-ospf-conf>
            </ip>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

auth-change-wait-time

Specifies the time before an authentication change takes place. The values can range from 0 to 14400 seconds. The default wait time iss 300 seconds

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/authentication-key

Configures simple password-based authentication for OSPF.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <authentication-key>
                            <auth-key-table>
                                <encrypttype>0</encrypttype>
                                <auth-key>pass</auth-key>
                            </auth-key-table>
                        </authentication-key>
                    </ospf-interface-config>
                </interface-loopback-ospf-conf>
            </ip>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

encrypttype

Specifies the encryption type

0

Specifies no encryption. OSPF processes password as a plain text password

2

Specifies the user to provide the encrypted password, preceded by a dollar sign ($) sign

255

Specifies the user to provide the encrypted password, and 255 internally maps to 2

auth-key

Specifies the OSPF password

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/cost

Configures cost for a specific interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <cost>100</cost>
                    </ospf-interface-config>
                </interface-loopback-ospf-conf>
            </ip>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

cost

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

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/database-filter

Configures filters for different types of outgoing Link State Advertisements (LSAs).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <database-filter>
                            <all-out></all-out>
                        </database-filter>
                    </ospf-interface-config>
                </interface-loopback-ospf-conf>
            </ip>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

database-filter

Specifies the filter type

all-external

Blocks all external LSAs

allow-default-and-type-4

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

all-out

Blocks all LSAs

all-summary-external

Blocks all summary (Type 3) and external (type 5) LSAs

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/dead-interval

Configures the neighbor dead interval, which is the number of seconds that a neighbor router waits for a hello packet from the device before declaring the router down.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <dead-interval>300</dead-interval>
                    </ospf-interface-config>
                </interface-loopback-ospf-conf>
            </ip>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

dead-interval

Specifies the dead interval in seconds. The default interval is 40 seconds

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/hello-interval

Configures the hello interval, which is the length of time between the transmission of hello packets that this interface sends to neighbor routers.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <hello-interval>250</hello-interval>
                    </ospf-interface-config>
                </interface-loopback-ospf-conf>
            </ip>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

hello-interval

Specifies the hello interval in seconds. The default interval is 10 seconds

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/md5-authentication/key-activation-wait-time

Configures MD5 authentication change hold time.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <md5-authentication>
                            <key-activation-wait-time>200</key-activation-wait-time>
                        </md5-authentication>
                    </ospf-interface-config>
                </interface-loopback-ospf-conf>
            </ip>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

key-activation-wait-time

Specifies the time OSPF waits before activating a new MD5 key

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/md5-authentication/key-id

Configures MD5 password.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <md5-authentication>
                            <key-table>
                                <key-id>2</key-id>
                                <key>0</key>
                                <md5-authentication-key>pass</md5-authentication-key>
                            </key-table>
                        </md5-authentication>
                    </ospf-interface-config>
                </interface-loopback-ospf-conf>
            </ip>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

key-id

Specifies the MD5 key ID. The value can range from 1 through 255

key

Specifies the encrypt type

0

Specifies no encryption. OSPF processes password as a plain text password

2

Specifies the user to provide the encrypted password, preceded by a dollar sign ($)

255

Specifies the user to provide the encrypted password

md5-authentication-key

Specifies the MD5 authentication password

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/mtu-ignore

Enables or disables MTU-match checking.In default operation, the IP MTU on both sides of an OSPF link must be the same, and a check of the MTU is performed when Hello packets are first exchanged.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <mtu-ignore></mtu-ignore>
                    </ospf-interface-config>
                </interface-loopback-ospf-conf>
            </ip>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

mtu-ignore

Enables MTU-match checking

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/network

Configures the network type for the interface. Point-to-point can support unnumbered links, which requires less processing by OSPF.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <network>broadcast</network>
                    </ospf-interface-config>
                </interface-loopback-ospf-conf>
            </ip>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

network

Specifies the network type

broadcast

Network type is broadcast, such as Ethernet

point-to-point

Network type is point-to-point

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/passive

Configures an OSPF interface as passive.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <passive></passive>
                    </ospf-interface-config>
                </interface-loopback-ospf-conf>
            </ip>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

passive

Sets an OSPF interface as passive

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/priority

Configures priority for designated router (DR) election.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <priority>10</priority>
                    </ospf-interface-config>
                </interface-loopback-ospf-conf>
            </ip>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

priority

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

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/retransmit-interval

Configures retransmit interval. The interval is the time between Link-State Advertisement (LSA) retransmissions to adjacent routers for this interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <retransmit-interval>200</retransmit-interval>
                    </ospf-interface-config>
                </interface-loopback-ospf-conf>
            </ip>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

retransmit-interval

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

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/transmit-delay

Configures the transmit delay for link-update packets, which is the estimated time required for OSPF to send link-state update packets on the interface to which you are connected.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <transmit-delay>10</transmit-delay>
                    </ospf-interface-config>
                </interface-loopback-ospf-conf>
            </ip>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

transmit-delay

Specifies the transmit delay in seconds. The values can range from 0 though 3600 seconds. The default interval is 1 second

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/active

Sets a specific OSPFv3 interface to active.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>5</id>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <active></active>
                </interface-ospfv3-conf>
            </ipv6>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

active

Sets a specific OSPFv3 interface to active

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/address

Configures a primary or secondary global or unique local IPv6 unicast address, including a manually configured interface ID.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>1</id>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-config>
                    <address>
                        <address>2001:db8:12d:1300:240z:d0ff:fe48:4672/64</address>
                    </address>
                </ipv6-config>
            </ipv6>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

Specifies the loopback ID

address

Specifies the IPv6 address

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/area

Enables OSPFv3 on an interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>5</id>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <interface-area>0</interface-area>
                </interface-ospfv3-conf>
            </ipv6>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

interface-area

Specifies the area ID

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/cost

Configures cost for a specific interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>5</id>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <cost>5</cost>
                </interface-ospfv3-conf>
            </ipv6>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

cost

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

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/dead-interval

Specifies the time period for which a neighbor router waits for a hello packet from the device before declaring the router down.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>5</id>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <link-interval-properties>
                        <dead-interval>50</dead-interval>
                    </link-interval-properties>
                </interface-ospfv3-conf>
            </ipv6>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

dead-interval

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

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/hello-interval

Sets the length of time between the transmission of hello packets that an interface sends to neighbor routers.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <link-interval-properties>
                        <hello-interval>11</hello-interval>
                    </link-interval-properties>
                </interface-ospfv3-conf>
            </ipv6>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

hello-interval

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

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/hello-jitter

Sets the allowed jitter between HELLO packets.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <link-interval-properties>
                        <hello-jitter>11</hello-jitter>
                    </link-interval-properties>
                </interface-ospfv3-conf>
            </ipv6>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

hello-jitter

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

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/instance

Specifies the number of OSPFv3 instances running on an interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <instance>1</instance>
                </interface-ospfv3-conf>
            </ipv6>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

instance

Specifies the instance identification number. The value can range from 0 through 255

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/mtu-ignore

Enables maximum transmission unit (MTU) match checking.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <mtu-ignore></mtu-ignore>
                </interface-ospfv3-conf>
            </ipv6>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

mtu-ignore

Enables maximum transmission unit (MTU) match checking

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/network

Configures network type.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <network>broadcast</network>
                    </ospf-interface-config>
                </interface-loopback-ospf-conf>
            </ip>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

Specifies the loopback ID

network

Specifies the network type

broadcast

Network type is broadcast, such as Ethernet

point-to-point

Network type is point-to-point

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/passive

Sets a specific OSPFv3 interface to passive.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <passive></passive>
                </interface-ospfv3-conf>
            </ipv6>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

passive

Sets a specific OSPFv3 interface to passive

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/priority

Configures priority for designated router (DR) election and backup designated routers (BDRs) on the interface you are connected to.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <priority>10</priority>
                </interface-ospfv3-conf>
            </ipv6>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

priority

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

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/retransmit-interval

Configures retransmit interval. The retransmit interval is the time between Link-State Advertisement (LSA) retransmissions to adjacent routers for a given interface

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <link-interval-properties>
                        <retransmit-interval>10</retransmit-interval>
                    </link-interval-properties>
                </interface-ospfv3-conf>
            </ipv6>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

retransmit-interval

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

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/suppress-linklsa

Suppresses link LSA advertisements.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <suppress-linklsa></suppress-linklsa>
                </interface-ospfv3-conf>
            </ipv6>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

suppress-linklsa

Suppresses link LSA advertisements

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/transmit-delay

Configures transmit delay for link-update packets. The transmiot delay is the estimated time required for OSPFv3 to send link-state update packets on the interface to which you are connected.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <link-interval-properties>
                        <transmit-delay>5</transmit-delay>
                    </link-interval-properties>
                </interface-ospfv3-conf>
            </ipv6>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

transmit-delay

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

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/shutdown

Disables interface loopback port.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>1</id>
            <intf-loopback>
                <shutdown></shutdown>
            </intf-loopback>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

shutdown

Disables interface loopback port

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/snmp

Configures SNMP traps.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <snmp>
                <trap>
                    <link-snmp-trap-status></link-snmp-trap-status>
                </trap>
            </snmp>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

link-snmp-trap-status

Enables SNMP traps

rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/vrf

Configures any port as a VRF port.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
            <id>10</id>
            <vrf>
                <forwarding>vrf1</forwarding>
            </vrf>
        </loopback>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

id

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

forwarding

Specifies the name of the VRF option for the port

rbridge-id/{rbridge-number}/interface/ve

Configures a virtual Ethernet (VE) interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the corresponding VLAN interface that must already be configured before the VE interface can be created

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/bfd/interval

Configures Bidirectional Forwarding Detection (BFD) session parameters on an interface

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <bfd>
                <interval>
                    <min-tx>500</min-tx>
                    <min-rx>250</min-rx>
                    <multiplier>4</multiplier>
                </interval>
            </bfd>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

min-tx

Specifies the interval a device waits to trasmit a control packet from BFD peers. The value can range from 50 through 30000 milliseconds. The default value is 200 milliseconds for chassis and 500 milliseconds for non chassis platforms

min-rx

Specifies the interval a device waits to receive a control packet from BFD. The value can range from 50 through 30000 milliseconds. The default value is 200 milliseconds for chassis and 500 milliseconds for non chassis platforms
peers

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 3to 50. The default value is 3

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/bfd/shutdown

Disables Bidirectional Forwarding Detection (BFD) on an interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <bfd>
                <bfd-shutdown></bfd-shutdown>
            </bfd>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

bfd-shutdown

Disables Bidirectional Forwarding Detection (BFD) on an interface

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/address

Configures an IP address.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <ip-config>
                    <address>
                        <address>1.1.1.1/24</address>
                        <ospf-ignore></ospf-ignore>
                    </address>
                </ip-config>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

address

Specifies the IP address

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

ospf-passive

Disables adjacency formation with OSPF neighbors but does not disable advertisement of the interface to OSPF

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/anycast-address

Configures the IPv4 anycast address on an interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <ip-anycast-address xmlns="urn:brocade.com:mgmt:brocade-vrrp">
                    <ip-address>192.128.2.1/24</ip-address>
                </ip-anycast-address>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

ip-address

Specifes the IPv4 anycast address and mask. A mask value is required

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/arp-aging-timeout

Sets how long an ARP entry stays in cache before the cache refreshes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <ip-config>
                    <arp-aging-timeout>220</arp-aging-timeout>
                </ip-config>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

arp-aging-timeout

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/dhcp/relay/address

Configures the IP DHCP Relay on a Layer 3 interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-ve-dhcp-conf xmlns="urn:brocade.com:mgmt:brocade-dhcp">
                    <dhcp>
                        <relay>
                            <servers>
                                <relay-ip-addr>10.10.10.10</relay-ip-addr>
                                <server-vrf-name>mgmt-vrf</server-vrf-name>
                            </servers>
                        </relay>
                    </dhcp>
                </interface-ve-dhcp-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

relay-ip-addr

Specifies the IPv4 address of the DHCP server where the DHCP client requests are to be forwarded

server-vrf-name

Specifies the VRF name. 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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/dhcp/relay/gateway/address

Configures the IP DHCP Relay on a Layer 3 gateway interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-ve-dhcp-conf xmlns="urn:brocade.com:mgmt:brocade-dhcp">
                    <dhcp>
                        <relay>
                            <gateway>1.1.1.1</gateway>
                        </relay>
                    </dhcp>
                </interface-ve-dhcp-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

gateway

Specifies the IPv4 gateway address of the DHCP server where the DHCP client requests are to be forwarded

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/directed-broadcast

Enables IP directed broadcasts on an interface. A directed broadcast is an IP broadcast to all devices within a single directly attached network or subnet.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <ip-config>
                    <directed-broadcast></directed-broadcast>
                </ip-config>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

directed-broadcast

Enables IP directed broadcasts on an interface

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/fabric-virtual-gateway/enable

Enables IPv4 Fabric-Virtual-Gateway sessions in VCS.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <ip-local-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
                    <local-ip-gw-id>1</local-ip-gw-id>
                    <enable_local></enable_local>
                </ip-local-anycast-gateway>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE number

local-ip-gw-id

Specifies the gateway ID

enable_local

Enables IPv4 Fabric-Virtual-Gateway sessions in VCS

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/fabric-virtual-gateway/load-balancing

Configures load balancing on an RBridge.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <ip-local-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
                    <local-ip-gw-id>1</local-ip-gw-id>
                    <load-balancing>
                        <threshold-priority>100</threshold-priority>
                    </load-balancing>
                </ip-local-anycast-gateway>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE number

local-ip-gw-id

Specifies the gateway ID

threshold-priority

Specifies the load balancing threshold priority. The value can range from 1 through 254

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/fabric-virtual-gateway/track/interface

Tracks an interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <ip-local-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
                    <local-ip-gw-id>1</local-ip-gw-id>
                    <track>
                        <interface>
                            <interface-type>tengigabitethernet</interface-type>
                            <interface-name>1/0/5</interface-name>
                            <interface-priority>25</interface-priority>
                        </interface>
                    </track>
                </ip-local-anycast-gateway>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

name
: Specifies the VLAN ID

local-ip-gw-id
: Specifies the gateway ID

interface-type
: Specifies the interface type

interface-name
: Specifies the interfaec name

interface-priority
: Spwecifies the track priority. The value can range from 1 through 254

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/fabric-virtual-gateway/track/network

Tracks a network.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <ip-local-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
                    <local-ip-gw-id>1</local-ip-gw-id>
                    <track>
                        <network>
                            <network-address>1.1.1.1/24</network-address>
                            <network-priority>26</network-priority>
                        </network>
                    </track>
                </ip-local-anycast-gateway>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

name
: Specifies the VLAN ID

local-ip-gw-id
: Specifies the gateway ID

network-address
: Specifies the network address

network-priority
: Specifies the network priority. The value can range from 1 through 254

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/fabric-virtual-gateway/track/next-hop

Tracks next-hop.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <ip-local-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
                    <local-ip-gw-id>1</local-ip-gw-id>
                    <track>
                        <next-hop>
                            <next-hop-address>1.1.1.1</next-hop-address>
                            <next-hop-priority>28</next-hop-priority>
                        </next-hop>
                    </track>
                </ip-local-anycast-gateway>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

name
: Specifies the VLAN ID

local-ip-gw-id
: Specifies the gateway ID

next-hop-address
: Specifies the next-hop address

next-hop-priority
: Specifies the next-hop priority. The value can range from 1 through 254

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/icmp/address-mask

Enables IPv4 Internet Control Message Protocol (ICMP) address masks.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <icmp xmlns="urn:brocade.com:mgmt:brocade-icmp">
                    <address-mask></address-mask>
                </icmp>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

address-mask

Enables IPv4 Internet Control Message Protocol (ICMP) address masks

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/icmp/echo-reply

Enables the generation of IPv4 Internet Control Message Protocol (ICMP) Echo Reply messages.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <icmp xmlns="urn:brocade.com:mgmt:brocade-icmp">
                    <echo-reply></echo-reply>
                </icmp>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

echo-reply

Enables the generation of IPv4 Internet Control Message Protocol (ICMP) Echo Reply messages

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/icmp/rate-limiting

Limits the rate at which IPv4 Internet Control Message Protocol (ICMP) messages are sent on a network.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <icmp xmlns="urn:brocade.com:mgmt:brocade-icmp">
                    <rate-limiting>1100</rate-limiting>
                </icmp>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

rate-limiting

Specifies the time interval per ICMP packet. The value can range from 1 through 4294967295 milliseconds. The default interval is 1000 milliseconds

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/icmp/redirect

Enables IPv4 Internet Control Message Protocol (ICMP) Redirect messages, which request that packets be sent on an alternative route.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <icmp xmlns="urn:brocade.com:mgmt:brocade-icmp">
                    <redirect></redirect>
                </icmp>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

redirect

Enables IPv4 Internet Control Message Protocol (ICMP) Redirect messages

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/icmp/unreachable

Prohibits routers from forwarding an IPv4 Internet Control Message Protocol (ICMP) Destination Unreachable Code 3 (port unreachable) message on a point-to-point link back onto the ingress port.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <icmp xmlns="urn:brocade.com:mgmt:brocade-icmp">
                    <unreachable></unreachable>
                </icmp>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

unreachable

Prohibits routers from forwarding an IPv4 Internet Control Message Protocol (ICMP)

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/mtu

Sets the MTU on a speciffied interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <ip-config>
                    <mtu>2000</mtu>
                </ip-config>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

mtu

Specifies the size of the maximum transmission unit (MTU) of an interface. The value can range from 1300 through 9018 bytes. The default is 1500 bytes

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/multicast-boundary

Configures a multicast boundary on an interface. You can also filter a range of multicast-group addresses by specifying a prefix list.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <pim-intf-vlan-cont xmlns="urn:brocade.com:mgmt:brocade-pim">
                    <pim-int-cmd>
                        <mcast-bdry-prefix-list>myprefix</mcast-bdry-prefix-list>
                    </pim-int-cmd>
                </pim-intf-vlan-cont>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

mcast-bdry-prefix-list

Specifies the name of a prefix list

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/active

Sets a specific OSPF interface to active.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <active></active>
                    </ospf-interface-config>
                </interface-vlan-ospf-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

active

Sets a specific OSPF interface to active

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/area

Enables OSPF on an interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <area>0</area>
                    </ospf-interface-config>
                </interface-vlan-ospf-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

area

Specifies the area address in dotted decimal or decimal format

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/auth-change-wait-time

Configures authentication-change hold time.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <area>0</area>
                        <auth-change-wait-time>100</auth-change-wait-time>
                    </ospf-interface-config>
                </interface-vlan-ospf-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

area

Specifies the area address

auth-change-wait-time

Specifies the time before an authentication change takes place. The values can range from 0 to 14400 seconds. The default wait time is 300 seconds

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/authentication-key

Configures simple password-based authentication for OSPF.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <authentication-key>
                            <auth-key-table>
                                <encrypttype>0</encrypttype>
                                <auth-key>pass</auth-key>
                            </auth-key-table>
                        </authentication-key>
                    </ospf-interface-config>
                </interface-vlan-ospf-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

encrypttype

Specifies the encryption type

0

Specifies no encryption. OSPF processes password as a plain text password

2

Expects the user to provide the encrypted password, preceded by a dollar sign ($) sign

255

Expects the user to provide the encrypted password

auth-key

Specifies the OSPF password

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/bfd

Enables Bidirectional Forwarding Detection (BFD) on a specific OSPFv2 interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <bfd>
                            <intf-bfd-enable></intf-bfd-enable>
                        </bfd>
                    </ospf-interface-config>
                </interface-vlan-ospf-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

intf-bfd-enable

Enables Bidirectional Forwarding Detection (BFD) on a specific OSPFv2 interface

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/cost

Configures cost for a specific interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <cost>10</cost>
                    </ospf-interface-config>
                </interface-vlan-ospf-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

cost

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/database-filter

Configures filters for different types of outgoing Link State Advertisements (LSAs).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <database-filter>
                            <all-out></all-out>
                        </database-filter>
                    </ospf-interface-config>
                </interface-vlan-ospf-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

database-filter

Specifies the filter type

all-external

Blocks all external LSAs

allow-default-and-type-4

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

all-out

Blocks all LSAs

all-summary-external

Blocks all summary (Type 3) and external (type 5) LSAs

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/dead-interval

Configures the neighbor dead interval, which is the number of seconds that a neighbor router waits for a hello packet from the device before declaring the router down.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <dead-interval>200</dead-interval>
                    </ospf-interface-config>
                </interface-vlan-ospf-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

dead-interval

Specifies the dead interval in seconds. The default interval is 40 seconds

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/hello-interval

Configures the hello interval, which is the length of time between the transmission of hello packets that this interface sends to neighbor routers.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <hello-interval>100</hello-interval>
                    </ospf-interface-config>
                </interface-vlan-ospf-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

hello-interval

Specifies the hello interval in seconds. The default interval is 10 seconds

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/md5-authentication/key-activation-wait-time

Configures MD5 authentication change hold time.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <md5-authentication>
                            <key-activation-wait-time>100</key-activation-wait-time>
                        </md5-authentication>
                    </ospf-interface-config>
                </interface-vlan-ospf-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

key-activation-wait-time

Specifies the time that OSPF waits before activating a new key. The values can range from 0 to 14400 seconds. The default value is 300 seconds

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/md5-authentication/key-id

Configures MD5 password.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <md5-authentication>
                            <key-table>
                                <key-id>12</key-id>
                                <key>0</key>
                                <md5-authentication-key>pass</md5-authentication-key>
                            </key-table>
                        </md5-authentication>
                    </ospf-interface-config>
                </interface-vlan-ospf-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

key-id

Specifies the MD5 key ID. The value can range from 1 thropugh 255

key

Specifies the encryption type

0

Specifies no encryption. OSPF processes password as a plain text password

2

Expects the user to provide the encrypted password, preceded by a dollar sign ($)

255

Expects the user to provide the encrypted password

md5-authentication-key

Specifies the OSPF password

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/mtu-ignore

Enables MTU-match checking. In default operation, the IP MTU on both sides of an OSPF link must be the same, and a check of the MTU is performed when Hello packets are first exchanged.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <mtu-ignore></mtu-ignore>
                    </ospf-interface-config>
                </interface-vlan-ospf-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

name
: Specifies the VE interface number

mtu-ignore
: Enables MTU-match checking

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/network

Configures the network type for the interface. Point-to-point can support unnumbered links, which requires less processing by OSPF.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <network>broadcast</network>
                    </ospf-interface-config>
                </interface-vlan-ospf-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

network

Specifies the network type

broadcast

Network type is broadcast, such as Ethernet

point-to-point

Network type is point-to-point

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/passive

Configures an OSPF interface as passive.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <passive></passive>
                    </ospf-interface-config>
                </interface-vlan-ospf-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

passive

Sets an OSPF interface as passive

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/priority

Configures priority for designated router (DR) election.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <priority>10</priority>
                    </ospf-interface-config>
                </interface-vlan-ospf-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

priority

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/retransmit-interval

Configures retransmit interval. The interval is the time between Link-State Advertisement (LSA) retransmissions to adjacent routers for this interface

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <retransmit-interval>10</retransmit-interval>
                    </ospf-interface-config>
                </interface-vlan-ospf-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface numbe

retransmit-interval

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/transmit-delay

Configures the transmit delay for link-update packets, which is the estimated time required for OSPF to send link-state update packets on the interface to which you are connected.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
                    <ospf-interface-config>
                        <transmit-delay>15</transmit-delay>
                    </ospf-interface-config>
                </interface-vlan-ospf-conf>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

transmit-delay

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/pim/dr-priority

Configures the designated router (DR) priority of a protocol Independent Multicast (PIM) enabled interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <pim-intf-vlan-cont xmlns="urn:brocade.com:mgmt:brocade-pim">
                    <pim-int-cmd>
                        <pim>
                            <dr-priority>2</dr-priority>
                        </pim>
                    </pim-int-cmd>
                </pim-intf-vlan-cont>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

dr-priority

Specifies the DR priority value. The value can range from 0 through 65535. The default DR priority value is 1

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/pim/neighbor-filter

By default, directly connected routers under protocol-independent multicast (PIM) form neighborship with one another. Using this command, you can block specified routers from neighborship.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <pim-intf-vlan-cont xmlns="urn:brocade.com:mgmt:brocade-pim">
                    <pim-int-cmd>
                        <pim>
                            <neighbor-filter>prefix1</neighbor-filter>
                        </pim>
                    </pim-int-cmd>
                </pim-intf-vlan-cont>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

neighbor-filter

Specifies the name of a prefix list defined by the ip prefix-list command. The values can be between 1 and 63 characters. Although the first character must be alphabetic, the others can be alphanumeric, underscores (_), or minus signs (-).

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/pim-sparse

Enables Protocol Independent Multicast Sparse Mode on a physical or a VE interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <pim-intf-vlan-cont xmlns="urn:brocade.com:mgmt:brocade-pim">
                    <pim-int-cmd>
                        <pim-sparse></pim-sparse>
                    </pim-int-cmd>
                </pim-intf-vlan-cont>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

pim-sparse

Enables Protocol Independent Multicast Sparse Mode

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/policy

Enables policy-based routing (PBR) on any Layer 3 interface after ACLs and route map entries are configured.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip-pbr-interface xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
                <ip>
                    <policy>
                        <route-map>
                            <route-map-name>route1</route-map-name>
                        </route-map>
                    </policy>
                </ip>
            </ip-pbr-interface>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

route-map-name

Specifies the name of the route-map when it was created

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/proxy-arp

Enables proxy ARP on an interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <ip-config>
                    <proxy-arp></proxy-arp>
                </ip-config>
            </ip>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

proxy-arp

Enables proxy ARP on an interface

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/access-group

Applies rules specified in an IPv6 access control list (ACL) to traffic entering or exiting an interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <access-group xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list">
                    <ipv6-access-list>acl10</ipv6-access-list>
                    <ip-direction>in</ip-direction>
                </access-group>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

ipv6-access-list

Specifies the name of the standard or extended IP access list

ip-direction

Specifies the binding direction (ingress or egress)

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/address

Configures a primary or secondary global or unique local IPv6 unicast address, including a manually configured interface ID.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-config>
                    <address>
                        <ipv6-address>
                            <address>2003:384d::23:24/64</address>
                            <anycast></anycast>
                        </ipv6-address>
                    </address>
                </ipv6-config>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

address

Specifies the IPv6 address

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/anycast-address

Configures the IPv6 anycast address on an interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-anycast-address xmlns="urn:brocade.com:mgmt:brocade-vrrp">
                    <ipv6-address>2001:1:0:1::1/64</ipv6-address>
                </ipv6-anycast-address>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBrigdge ID

name

Specifies the VLAN ID

ipv6-address

Specifies the IPv6 anycast address and mask. A mask value is required

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/dhcp/relay/address

Configures the IPv6 DHCP Relay on a Layer 3 interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ve-dhcp-conf xmlns="urn:brocade.com:mgmt:brocade-dhcpv6">
                    <dhcp>
                        <relay>
                            <servers>
                                <relay-ip-addr>2004:384d::23:24</relay-ip-addr>
                                <interface>
                                    <interface-type>fortygigabitethernet</interface-type>
                                    <interface-name>1/0/50</interface-name>
                                </interface>
                            </servers>
                        </relay>
                    </dhcp>
                </interface-ve-dhcp-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

name
: Specifies the VLAN ID

relay-ip-addr
: Specifies the IPv6 address of the DHCP server where the DHCP client requests are to be forwarded.

interface-type
: Specifies the interface type, such as gigabitEthernet, TengigabitEthernet, FortygigabitEthernet, HundredgigabitEthernet, or Ve interface.

interface-name
: Specifies the interface name

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway/enable

Enables IPv6 Fabric-Virtual-Gateway sessions in VCS.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-local-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
                    <local-ipv6-gw-id>1</local-ipv6-gw-id>
                    <enable_local></enable_local>
                </ipv6-local-anycast-gateway>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE number

local-ipv6-gw-id

Specifies the gateway ID

enable_local

Enables IPv6 Fabric-Virtual-Gateway sessions

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway/track

Tracks an interface, network, or next hop.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-local-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
                    <local-ipv6-gw-id>1</local-ipv6-gw-id>
                    <ipv6-track>
                        <ipv6-interface>
                            <ipv6-interface-type>fortygigabitethernet</ipv6-interface-type>
                            <ipv6-interface-name>1/0/50</ipv6-interface-name>
                            <ipv6-interface-priority>25</ipv6-interface-priority>
                        </ipv6-interface>
                        <ipv6-network>
                            <ipv6-network-address>1::/64</ipv6-network-address>
                            <ipv6-network-priority>10</ipv6-network-priority>
                        </ipv6-network>
                        <ipv6-next-hop>
                            <ipv6-next-hop-address>2001::2</ipv6-next-hop-address>
                            <ipv6-next-hop-priority>28</ipv6-next-hop-priority>
                        </ipv6-next-hop>
                    </ipv6-track>
                </ipv6-local-anycast-gateway>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

name
: Specifies the VE interface number

local-ipv6-gw-id
: Specifies the gateway ID

ipv6-interface-type
: Specifies the interface type

ipv6-interface-name
: Specifies the interface name

ipv6-interface-priority
: Specifies the track priority. The value can range from 1 through 254

ipv6-network-address
: Specifies the network address

ipv6-network-priority
Specifies the track priority. The value can range from 1 through 254

ipv6-next-hop-address
Specifies the next-hop IP address

ipv6-next-hop-priority
Specifies the track priority. The value can range from 1 through 254

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/hop-by-hop-trap

Enables hop-by-hop trap on an interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-ve-intf-cmds xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
                    <hop-by-hop-trap></hop-by-hop-trap>
                </ipv6-ve-intf-cmds>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

hop-by-hop-trap

Enables hop-by-hop trap on an interface

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/icmpv6/echo-reply

Enables the generation of an IPv6 Internet Control Message Protocol version 6 (ICMPv6) Echo Reply message.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <icmpv6 xmlns="urn:brocade.com:mgmt:brocade-icmp">
                    <echo-reply></echo-reply>
                </icmpv6>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

echo-reply

Enables the generation of an IPv6 ICMPv6 Echo Reply message

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/icmpv6/rate-limiting

Limits the rate at which IPv6 Internet Control Message Protocol version 6 (ICMPv6) messages are sent on an IPv6 network.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <icmpv6 xmlns="urn:brocade.com:mgmt:brocade-icmp">
                    <rate-limiting>1500</rate-limiting>
                </icmpv6>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

rate-limiting

Specifies the number of milliseconds between packets. The values can range from 1 through 4294967295 milliseconds. The default value is 1000 milliseconds

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/icmpv6/redirect

Enables IPv6 Internet Control Message Protocol version 6 (ICMPv6) Redirect messages, which request that packets be sent on an alternative route.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <icmpv6 xmlns="urn:brocade.com:mgmt:brocade-icmp">
                    <redirect></redirect>
                </icmpv6>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

redirect

Enables IPv6 Internet Control Message Protocol version 6 (ICMPv6) Redirect messages

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/icmpv6/unreachable

Prohibits routers from forwarding an IPv6 Internet Control Message Protocol version 6 (ICMPv6) Destination Unreachable Code 3 (port unreachable) message on a point-to-point link back onto the ingress port.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <icmpv6 xmlns="urn:brocade.com:mgmt:brocade-icmp">
                    <unreachable></unreachable>
                </icmpv6>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

unreachable

Enables the sending of Destination Unreachable Code 3 messages

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/mtu

Configures a maximum size for IPv6 MTU packets to be sent on an interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-config>
                    <mtu>1300</mtu>
                </ipv6-config>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

mtu

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/broadcast-mac-trap

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

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                    <ipv6-intf-cmds>
                        <nd>
                            <broadcast-mac-trap></broadcast-mac-trap>
                        </nd>
                    </ipv6-intf-cmds>
                </ipv6-nd-ra>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

broadcast-mac-trap

Enables the trap for all the IPv6 packets with broadcast mac

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/cache

Configures the time interval after which the IPv6 Neighbor Discovery cache is deleted or refreshed.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                    <ipv6-intf-cmds>
                        <nd>
                            <cache>
                                <expire>14000</expire>
                            </cache>
                        </nd>
                    </ipv6-intf-cmds>
                </ipv6-nd-ra>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

expire

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/dad/attempts

Configures the number of IPv6 Neighbor Discovery Neighbor Solicitation (NS) messages to be sent as part of duplicate address detection (DAD).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                    <ipv6-intf-cmds>
                        <nd>
                            <dad>
                                <attempts>3</attempts>
                            </dad>
                        </nd>
                    </ipv6-intf-cmds>
                </ipv6-nd-ra>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

attempts

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/dad/time

Configures the retransmit time interval for IPv6 Neighbor Discovery Neighbor Solicitation (NS) messages that are sent as part of duplicate address detection (DAD).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                    <ipv6-intf-cmds>
                        <nd>
                            <dad>
                                <time>2</time>
                            </dad>
                        </nd>
                    </ipv6-intf-cmds>
                </ipv6-nd-ra>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

time

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/dad/hoplimit

Configures the number of hops to be advertised in IPv6 Neighbor Discovery Router Advertisement (RA) messages.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                    <ipv6-intf-cmds>
                        <nd>
                            <hoplimit>65</hoplimit>
                        </nd>
                    </ipv6-intf-cmds>
                </ipv6-nd-ra>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

hoplimit

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/managed-config-flag

In IPv6 Neighbor Discovery, indicates to hosts on a local link that they must use the stateful autoconfiguration feature to obtain IPv6 addresses for their interfaces.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                    <ipv6-intf-cmds>
                        <nd>
                            <managed-config-flag></managed-config-flag>
                        </nd>
                    </ipv6-intf-cmds>
                </ipv6-nd-ra>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

managed-config-flag

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/mtu

Sets the size of the maximum transmission unit (MTU) that is advertised in Neighhbor Discovery Router Advertisement (RA) messages.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                    <ipv6-intf-cmds>
                        <nd>
                            <mtu>1550</mtu>
                        </nd>
                    </ipv6-intf-cmds>
                </ipv6-nd-ra>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/ns-interval

Sets the interval for address resolution between IPv6 Neighbor Discovery Neighbor Solicitation (NS) messages.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                    <ipv6-intf-cmds>
                        <nd>
                            <ns-interval>2</ns-interval>
                        </nd>
                    </ipv6-intf-cmds>
                </ipv6-nd-ra>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

ns-interval

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/other-config-flag

In IPv6 Neighbor Discovery, 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.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                    <ipv6-intf-cmds>
                        <nd>
                            <other-config-flag></other-config-flag>
                        </nd>
                    </ipv6-intf-cmds>
                </ipv6-nd-ra>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

other-config-flag

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/prefix

Configures which IPv6 prefixes are included in IPv6 Neighbor Discovery Router Advertisement (RA) messages.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                    <ipv6-intf-cmds>
                        <nd>
                            <prefix>
                                <prefix-ipv6-address>2ffe:1111::/64</prefix-ipv6-address>
                            </prefix>
                        </nd>
                    </ipv6-intf-cmds>
                </ipv6-nd-ra>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

prefix-ipv6-address

Specifies the IPv6 prefix

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/ra-interval

Configures the maximum interval range and minimum interval at which IPv6 Neighbor Discovery Router Advertisement (RA) messages are sent.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                    <ipv6-intf-cmds>
                        <nd>
                            <ra-interval>
                                <max-interval>650</max-interval>
                                <min>250</min>
                            </ra-interval>
                        </nd>
                    </ipv6-intf-cmds>
                </ipv6-nd-ra>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

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/ve/{vlan-id}/ipv6/nd/ra-lifetime

Configures the amount of time in IPv6 Neighbor Discovery that a router is considered a valid default router.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                    <ipv6-intf-cmds>
                        <nd>
                            <ra-lifetime>1900</ra-lifetime>
                        </nd>
                    </ipv6-intf-cmds>
                </ipv6-nd-ra>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

ra-lifetime

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/reachable-time

Configures the amount of time in IPv6 Neighbor Discovery that a deivce considers a remove IPv6 node reachable.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                    <ipv6-intf-cmds>
                        <nd>
                            <reachable-time>1</reachable-time>
                        </nd>
                    </ipv6-intf-cmds>
                </ipv6-nd-ra>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

reachable-time

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/retrans-timer

Configures the time advertised between IPv6 Neighbor Discovery Neighbor Solicitation (NS) messages.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                    <ipv6-intf-cmds>
                        <nd>
                            <retrans-timer>1</retrans-timer>
                        </nd>
                    </ipv6-intf-cmds>
                </ipv6-nd-ra>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/suppress-ra

Disables the sending of ICMPv6 Router Advertisement (RA) messages, including those sent in response to a solicitation as well as MTUs.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                    <ipv6-intf-cmds>
                        <nd>
                            <suppress-ra>
                                <suppress-ra-all></suppress-ra-all>
                            </suppress-ra>
                        </nd>
                    </ipv6-intf-cmds>
                </ipv6-nd-ra>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

suppress-ra

Disables the sending of ICMPv6 Router Advertisement (RA) messages

all

Disables the sending of all RA messages, including those sent in response to a solicitation

mtu

Disables the sending of MTUs in RA messages

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/neighbor

Configures the IPv6 and MAC addresses of a neighbor as static entries for IPv6 Neighbor Discovery.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                    <ipv6-intf-cmds>
                        <neighbor>
                            <ipv6-address>2004:384d::23:24</ipv6-address>
                            <hardware-address>0011.1122.2233</hardware-address>
                        </neighbor>
                    </ipv6-intf-cmds>
                </ipv6-nd-ra>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

ipv6-address

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

hardware-address

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/active

Sets a specific OSPFv3 interface to active.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <active></active>
                </interface-ospfv3-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

active

Activates OSPFv3 interface

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/area

Enables OSPFv3 on an interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <interface-area>1.1.1.1</interface-area>
                </interface-ospfv3-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

interface-area

Specifies the address

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/authetication/ipsec/disable

Disables IP security (IPsec) services on an OSPFv3 interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <authentication>
                        <ipsec>
                            <ipsec-authentication-disable></ipsec-authentication-disable>
                        </ipsec>
                    </authentication>
                </interface-ospfv3-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

ipsec-authentication-disable

Disables IP security (IPsec) services on an OSPFv3 interface

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/authetication/ipsec/key-add-remove-interval

Specifies IPsec as the authentication type for an OSPFv3 interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <authentication>
                        <ipsec>
                            <ifc-key-add-remove-interval>350</ifc-key-add-remove-interval>
                        </ipsec>
                    </authentication>
                </interface-ospfv3-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

ifc-key-add-remove-interval

Specifies the OSPFv3 authentication key add-remove interval. The values can range from decimal numbers 0 through 14400. The default value is 300

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/authetication/spi

Specifies the security policy index (SPI) value for an OSPFv3 interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <authentication>
                        <ipsec-auth-key-config>
                            <spi>550</spi>
                            <esp>NULL</esp>
                            <esp-auth>hmac-sha1</esp-auth>
                            <esp-auth-no-encrypt></esp-auth-no-encrypt>
                            <esp-auth-key>abcef12345678901234fedcba098765432109876</esp-auth-key>
                        </ipsec-auth-key-config>
                    </authentication>
                </interface-ospfv3-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

spi

Specifies the SPI value. The values can range from decimal numbers 512 through 4294967295

esp

Specifies Encapsulating Security Payload (ESP) as the protocol to provide packet-level security

null

Specifies that the ESP payload is not encrypted

esp-auth

Specifies the authentication type

hmac-md5

Enables Hashed Message Authentication Code (HMAC) Message Digest 5 (MD5) authentication on the OSPF interface

hmac-sha1

Enables HMAC Secure Hash Algorithm 1 (SHA-1) authentication on the OSPF interface

esp-auth-no-encrypt
: The 40-character key is not encrypted upon either its entry or its display

esp-auth-key
: Specifies the 40 hexadecimal character key

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/bfd

Enables Bidirectional Forwarding Detection (BFD) on a specific OSPFv3 interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <bfd>
                        <bfd-enable></bfd-enable>
                    </bfd>
                </interface-ospfv3-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

bfd-enable

Enables Bidirectional Forwarding Detection (BFD) on a specific OSPFv3 interface

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/cost

Configures cost for a specific interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <cost>10</cost>
                </interface-ospfv3-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

cost

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/dead-interval

Specifies the time period for which a neighbor router waits for a hello packet from the device before declaring the router down.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <link-interval-properties>
                        <dead-interval>45</dead-interval>
                    </link-interval-properties>
                </interface-ospfv3-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

dead-interval

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/hello-interval

Sets the length of time between the transmission of hello packets that an interface sends to neighbor routers.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <link-interval-properties>
                        <hello-interval>15</hello-interval>
                    </link-interval-properties>
                </interface-ospfv3-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

hello-interval

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/hello-jitter

Sets the allowed jitter between HELLO packets.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <link-interval-properties>
                        <hello-jitter>20</hello-jitter>
                    </link-interval-properties>
                </interface-ospfv3-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

hello-jitter

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/instance

Specifies the number of OSPFv3 instances running on an interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <instance>1</instance>
                </interface-ospfv3-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

instance

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/mtu-ignore

Enables maximum transmission unit (MTU) match checking.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <mtu-ignore></mtu-ignore>
                </interface-ospfv3-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

mtu-ignore

Enables maximum transmission unit (MTU) match checking

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/network

Configures network type.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <network>broadcast</network>
                </interface-ospfv3-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

network

Specifies the network type

broadcast

Network type is broadcast, such as Ethernet

point-to-point

Network type is point-to-point.

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/passive

Sets a specific OSPFv3 interface to passive.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <passive></passive>
                </interface-ospfv3-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

passive

Sets the OSPFv3 interface to passive.

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/priority

Configures priority for designated router (DR) election and backup designated routers (BDRs) on the interface you are connected to.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <priority>2</priority>
                </interface-ospfv3-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

priority

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/retransmit-interval

Configures retransmit interval. The retransmit interval is the time between Link-State Advertisement (LSA) retransmissions to adjacent routers for a given interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <link-interval-properties>
                        <retransmit-interval>10</retransmit-interval>
                    </link-interval-properties>
                </interface-ospfv3-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

retransmit-interval

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/suppress-linklsa

Suppresses link LSA advertisements.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <suppress-linklsa></suppress-linklsa>
                </interface-ospfv3-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

suppress-linklsa

Suppresses link LSA advertisements

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/transmit-delay

ipv6 ospf transmit-delay

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                    <link-interval-properties>
                        <transmit-delay>13</transmit-delay>
                    </link-interval-properties>
                </interface-ospfv3-conf>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

transmit-delay

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/policy

Configures PBR.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <policy xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
                    <route-map>
                        <ipv6-route-map-name>route1</ipv6-route-map-name>
                    </route-map>
                </policy>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

ipv6-route-map-name

Specifies the route map name

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/vrrp-extended-group

Configures an IPv6 VRRP-Ev3 group.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <vrrpv3e xmlns="urn:brocade.com:mgmt:brocade-vrrpv3">
                    <vrid>1</vrid>
                </vrrpv3e>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

vrid

Specifies a number from 1 through 128 that you assign to the VRRP-Ev3 group

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/vrrp-suppress-interface-ra

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

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
                <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
                    <ipv6-intf-cmds>
                        <vrrp-suppress-interface-ra></vrrp-suppress-interface-ra>
                    </ipv6-intf-cmds>
                </ipv6-nd-ra>
            </ipv6>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

vrrp-suppress-interface-ra

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/snmp

Enable SNMP traps.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <snmp>
                <trap>
                    <link-snmp-trap-status></link-snmp-trap-status>
                </trap>
            </snmp>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface number

link-snmp-trap-status

Enables SNMP traps

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrf

Configures any port as a VRF port.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <vrf xmlns="urn:brocade.com:mgmt:brocade-ip-config">
                <forwarding>vrf1</forwarding>
            </vrf>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

forwarding

Specifies the name of the VRF option for the port

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group

Configures a virtual-router-extended group and enters into the virtual router configuration mode.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
                <vrid>2</vrid>
            </vrrpe>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

vrid

Specifies a user-assigned number from 1 through 255 that you assign to the virtual router group

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/advertise-backup

Enables a backup VRRP router to send advertisement frames to the master VRRP router.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
                <vrid>2</vrid>
                <advertise-backup></advertise-backup>
            </vrrpe>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

name
: Specifies the VLAN ID

advertise-backup
: Enables a backup VRRP router

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/advertisement-interval

Configures the interval at which the master VRRP router advertises its existence to the backup routers.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
                <vrid>2</vrid>
                <advertisement-interval>2</advertisement-interval>
            </vrrpe>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

advertisement-interval

Specifies the interval at which the master VRRP router advertises its existence to the backup routers. The values can range from 1 through 255 seconds for VRRPv2 and from 100 through 40900 milliseconds for VRRPv3

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/advertisement-interval-scale

Configures subsecond intervals at which the master VRRP-Ev3 device advertises its existence to the backup routers.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
                <vrid>2</vrid>
                <advertisement-interval-scale>5</advertisement-interval-scale>
            </vrrpe>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

advertisement-interval-scale

Specifies the number representing the scale of the division of a configured interval at which the master VRRP-Ev3 device advertises its existence to the backup devices. The valid values are 1, 2, 5 and 10

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/arp

Enables specification of an IPv4 address for an Address Resolution Protocol (ARP) entry.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
                <vrid>2</vrid>
                <arp>
                    <unicast-request>
                        <receive></receive>
                    </unicast-request>
                </arp>
            </vrrpe>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

receive

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/backup-advertisement-interval

Configures the interval at which backup VRRP routers advertise their existence to the master router.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
                <vrid>2</vrid>
                <backup-advertisement-interval>100</backup-advertisement-interval>
            </vrrpe>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

backup-advertisement-interval

Specifies the interval at which a backup VRRP router advertises its existence to the master router. The value can range from 60 through 3600 seconds. The default interval is 60 seconds

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/enable

Enables a VRRP-E session.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
                <vrid>2</vrid>
                <enable></enable>
            </vrrpe>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

name
: Specifies the VE interface number

vrid
: Specifiesw the VRRP number

enable
: Enables a VRRP-E session

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/description

Configures interface specific description.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
                <vrid>2</vrid>
                <description>vrrpextended</description>
            </vrrpe>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

name
: Specifies the VLAN ID

vrid
: Virtual router identifier

description
: Specifies interface specific description

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/hold-time

Sets the time that a previously down backup VRRP router, which also must have a higher priority than the current master VRRP router, will wait before assuming mastership of the virtual router.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
                <vrid>2</vrid>
                <hold-time>100</hold-time>
            </vrrpe>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

vrid

Specifies the Virtual router identifier

hold-time

Specifies the time a formerly down backup router waits before assuming mastership of the virtual router. The value can range from 1 through 3600 seconds. The default value is 0

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/preempt-mode

Enables preempt mode for a VRRP router session.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
                <vrid>2</vrid>
                <preempt-mode></preempt-mode>
            </vrrpe>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

vrid

Specifies the Virtual router identifier

preempt-mode

Enables preempt mode for a VRRP router session

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/priority

Sets the priority of a physical router in a VRRP router group.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
                <vrid>2</vrid>
                <priority>100</priority>
            </vrrpe>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

vrid

Specifies the Virtual router identifier

priority

Specifies the priority of a physical router in a virtual router group. Higher numbers have priority over lower numbers. The value can range from 1 to 254. The default value is 1

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/short-path-forwarding

Enables short-path forwarding on a VRRP router.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
                <vrid>2</vrid>
                <short-path-forwarding>
                    <basic></basic>
                    <revert-priority>1</revert-priority>
                </short-path-forwarding>
            </vrrpe>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VLAN ID

vrid

Specifies the Virtual router identifier

revert-priority

Allows additional control over short-path-forwarding on a backup router. If you configure this option, the revert-priority number acts as a threshold for the current priority of the session, and only if the current priority is higher than the revert-priority will the backup router be able to route frames. The value can range from 1 through 254

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/track

Enables VRRP tracking for a specified interface. VRRP Extended (VRRP-E) sessions can track a specified interface or a network.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
                <vrid>2</vrid>
                <track>
                    <interface>
                        <interface-type>tengigabitethernet</interface-type>
                        <interface-name>1/0/5</interface-name>
                        <track-priority>2</track-priority>
                    </interface>
                </track>
            </vrrpe>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

name
: Specifies the VLAN ID

vrid
: Specifies the Virtual router identifier

interface-type
: Specifies the interface type

interface-name
: Specifies the interface name

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

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/virtual-ip

Configures a virtual IPv4 address for the virtual router.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>9</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>400</name>
            <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
                <vrid>45</vrid>
                <virtual-ip>
                    <virtual-ipaddr>42.32.25.55</virtual-ipaddr>
                </virtual-ip>
            </vrrpe>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrid

Specifies the Virtual router identifier

virtual-ipaddr

Specifies the Virtual IPv4 address of the virtual router

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/virtual-mac

Enables generation of a virtual MAC with 0 IP hash.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
                <vrid>2</vrid>
                <virtual-mac>02e0.5200.00xx</virtual-mac>
            </vrrpe>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

name
: Specifies the VLAN ID

vrid
: Specifies the Virtual router identifier

virtual-mac
: Specifies virtual MAC address

rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-group

Enables VRRP configuration.

Usage

```
rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <ve>
            <name>1</name>
            <vrrp xmlns="urn:brocade.com:mgmt:brocade-vrrp">
                <vrid>1</vrid>
                <version>2</version>
            </vrrp>
        </ve>
    </interface>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the VE interface name

vrid

Specifies the Virtual Router Identifier. The value can range from 1 through 255

version

Specifies the VRRP version. The value can be 2 or 3

rbridge-id/{rbridge-number}/ip/anycast-gateway-mac

Configures the IPv4 anycast-gateway MAC address.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>57</rbridge-id>
    <ip>
        <static-ag-ip-config xmlns="urn:brocade.com:mgmt:brocade-vrrp">
            <anycast-gateway-mac>
                <ip-anycast-gateway-mac>0000.abba.baba</ip-anycast-gateway-mac>
            </anycast-gateway-mac>
        </static-ag-ip-config>
    </ip>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ip-anycast-gateway-mac

Specifies the IPv4 anycast-gateway MAC address

default-mac

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

mac-address

Specifies a non-default IPv4 anycast-gateway MAC address

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/ip/as-path/access-list

Configures an AS-path access control list (ACL), specifies the community name, and whether to permit or deny traffic.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ip>
        <as-path xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
            <access-list>
                <name>acl14</name>
                <seq-keyword>seq</seq-keyword>
                <instance>5</instance>
                <ip-action>permit</ip-action>
                <ip-reg-expr>allow</ip-reg-expr>
            </access-list>
        </as-path>
    </ip>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the ACL name

seq-keyword

instance

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

ip-action

ip-reg-expr

rbridge-id/{rbridge-number}/ip/community-list/extended

Configures a community access control list (ACL), specifies the community name, and whether to permit or deny traffic, including through the use of a regular expression.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ip>
        <community-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
            <extended>
                <name>commlist1</name>
                <seq-keyword>seq</seq-keyword>
                <instance>5</instance>
                <ip-action>permit</ip-action>
                <ip-community-reg-expr>permit</ip-community-reg-expr>
            </extended>
        </community-list>
    </ip>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

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

seq-keyword

instance

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

ip-action

ip-community-reg-expr

rbridge-id/{rbridge-number}/ip/community-list/standard

Configures a community access control list (ACL), specifies the community number or type, and whether to permit or deny traffic.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ip>
        <community-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
            <standard>
                <name>commlist2</name>
                <seq-keyword>seq</seq-keyword>
                <instance>5</instance>
                <ip-action>permit</ip-action>
                <std-community-expr>local-as no-export </std-community-expr>
            </standard>
        </community-list>
    </ip>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

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

seq-keyword

instance

ip-action

std-community-expr

rbridge-id/{rbridge-number}/ip/dhcp/relay/information/option

Enables insertion and removal of DHCP relay information option-82, present in the DHCP client and server packets respectively.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ip>
        <dhcp xmlns="urn:brocade.com:mgmt:brocade-dhcp">
            <relay>
                <information>
                    <option></option>
                </information>
            </relay>
        </dhcp>
    </ip>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

option

Enables DHCP relay information option

Release version	Command history
7.0.0	This Netconf call was introduced

rbridge-id/{rbridge-number}/ip/extcommunity-list

Sets a BGP extended community filter.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ip>
        <extcommunity-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
            <extcommunity-list-num>1</extcommunity-list-num>
            <ext-community-action>permit</ext-community-action>
            <ext-community-expr>rt 2004:33</ext-community-expr>
        </extcommunity-list>
    </ip>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

extcommunity-list-num

Specifies an Extended Community list Instance number

ext-community-action

Specifies the action

deny

Denies access for a matching condition

permit

Permits access for a matching condition

ext-community-expr

Specifies the extended community type

rt *value*

Specifies the route target (RT) extended community. Specifies the RT extended community value

soo *value*

Specifies the site of origin (SOO) extended community. Specifies the SOO extended community value

rbridge-id/{rbridge-number}/ip/import/routes

Leaks IPv4 routes from the specified VRF to the default VRF, based on match criteria defined in routemap.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ip>
        <import xmlns="urn:brocade.com:mgmt:brocade-rtm">
            <routes>
                <src-vrf>vrf1</src-vrf>
                <route-map>routemap1</route-map>
            </routes>
        </import>
    </ip>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

src-vrf

Specifies the VRF instance from which to leak routes to the default VRF

route-map

Specifies the map name to use for route-leaking match criteria

rbridge-id/{rbridge-number}/ip/prefix-list

Configures an IP prefix-list instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ip>
        <prefix-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
            <name>prefix1</name>
            <seq-keyword>seq</seq-keyword>
            <instance>3</instance>
            <action-ipp>deny</action-ipp>
            <prefix-ipp>10.0.0.0/8</prefix-ipp>
            <ge-ipp>20</ge-ipp>
            <le-ipp>28</le-ipp>
        </prefix-list>
    </ip>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the prefix list name

seq-keyword

instance

Specifies the sequence number. The value can range from

action-ipp

prefix-ipp

ge-ipp

Specifies the minimum IP prefix length

le-ipp

Specifies the maximum IP prefix length

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

Configures IP receive access group.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ip>
        <receive xmlns="urn:brocade.com:mgmt:brocade-ip-access-list">
            <access-group>
                <ip-access-list>ipv4-receive-acl-example</ip-access-list>
                <ip-direction>in</ip-direction>
            </access-group>
        </receive>
    </ip>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ip-access-list

Specifies IP access list name

ip-direction

Specifies ingress direction

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

Adds a static route to the IP routing tables.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ip>
        <rtm-config xmlns="urn:brocade.com:mgmt:brocade-rtm">
            <route>
                <static-route-nh>
                    <static-route-dest>10.95.7.0/24</static-route-dest>
                    <static-route-next-hop>10.95.6.157</static-route-next-hop>
                    <route-attributes>
                        <metric>1</metric>
                        <distance>20</distance>
                        <tag>0</tag>
                    </route-attributes>
                </static-route-nh>
            </route>
        </rtm-config>
    </ip>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

static-route-dest

Specifies the destination IPv4 address and mask

static-route-next-hop

Specifies the IPv4 address of the next hop

metric

Specifies the cost metric of the route. The value can range from 1 through 16. The default value is 1

distance

Specifies the administrative distance of the route. When comparing otherwise equal routes to a destination, an Extreme device prefers lower administrative distances over higher ones. The value can range from 1 through 255. The default value is 1

tag

Specifies the tag value of the route to use for route filtering with a route map. The value can range from 0 through 4294967295

rbridge-id/{rbridge-number}/ip/route/next-hop-vrf

Enables the leaking of static routes from one VRF instance to another.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ip>
        <rtm-config xmlns="urn:brocade.com:mgmt:brocade-rtm">
            <route>
                <static-route-oif-vrf>
                    <static-route-next-vrf-dest>1.1.1.0/24</static-route-next-vrf-dest>
                    <next-hop-vrf>vrf1</next-hop-vrf>
                    <static-route-oif-type>tengigabitethernet</static-route-oif-type>
                    <static-route-oif-name>1/0/5</static-route-oif-name>
                </static-route-oif-vrf>
            </route>
        </rtm-config>
    </ip>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

static-route-next-vrf-dest

Specifies the IPv4 address in dotted-decimal notation with a CIDR notation mask

next-hop-vrf

Specifies the name of the target VRF instance to which route leaking is enabled

static-route-oif-type

Next-hop IP address in the target VRF instance

<N>gigabitethernet

Represents a valid, physical Ethernet subtype for all available Ethernet speeds. Enter ? to see which interface subtypes are available. Replace **<N>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

static-route-oif-name

Specifies the ethernet name

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

Configures Bidirectional Forwarding Detection (BFD) session parameters for IP static routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ip>
        <rtm-config xmlns="urn:brocade.com:mgmt:brocade-rtm">
            <route>
                <static>
                    bfd>
                        <bfd-static-route>
                            <bfd-static-route-dest>1.1.1.1</bfd-static-route-dest>
                            <bfd-static-route-src>10.10.10.10</bfd-static-route-src>
                            <bfd-interval-attributes>
                                <interval>55</interval>
                                <min-rx>55</min-rx>
                                <multiplier>4</multiplier>
                            </bfd-interval-attributes>
                        </bfd-static-route>
                    </bfd>
                </static>
            </route>
        </rtm-config>
    </ip>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

bfd-static-route-dest

Specifies the IP address of BFD neighbor

bfd-static-route-src

Specifies the source IP address

interval

Specifies the interval a device waits to send a control packet to BFD peers. The value can range from 50 to 30000 milliseconds

min-rx

Specifies the interval a device waits to receive a control packet from BFD peers. The value can range from 50 to 30000 milliseconds

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 to 50

rbridge-id/{rbridge-number}/ip/route/static/bfd/holdover-interval

Sets the time interval for which BFD session DOWN notifications are delayed before an IP static route is notified that a BFD session is down.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ip>
        <rtm-config xmlns="urn:brocade.com:mgmt:brocade-rtm">
            <route>
                <static>
                    bfd>
                        <holdover-interval>1</holdover-interval>
                    </bfd>
                </static>
            </route>
        </rtm-config>
    </ip>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

holdover-interval

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

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

Configures router ID.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ip>
        <rtm-config xmlns="urn:brocade.com:mgmt:brocade-rtm">
            <router-id>1.1.1.1</router-id>
        </rtm-config>
    </ip>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-id

Specifies the IPv4 address that you want as the router ID

rbridge-id/{rbridge-number}/ipv6/anycast-gateway-mac

Configures the IPv6 anycast-gateway MAC address.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <static-ag-ipv6-config xmlns=""urn:brocade.com:mgmt:brocade-vrrp"">
            <anycast-gateway-mac>
                <ipv6-anycast-gateway-mac>0000.2586.3652</ipv6-anycast-gateway-mac>
            </anycast-gateway-mac>
        </static-ag-ipv6-config>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ipv6-anycast-gateway-mac

Specifies the MAC address

default-mac

Sets the IPv6 anycast-gateway MAC address to 02e0.5200.0200

mac-address

Specifies a non-default IPv6 anycast-gateway MAC address

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/ipv6/import/routes

Leaks IPv6 routes from the specified VRF to the default VRF, based on match criteria defined in routemap.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <import xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm">
            <routes>
                <src-vrf>vrf1</src-vrf>
                <route-map>routemap</route-map>
            </routes>
        </import>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

src-vrf

Specifies the VRF instance from which to leak routes to the default VRF

route-map

Specifies the map name to use for route-leaking match criteria

rbridge-id/{rbridge-number}/ipv6/nd/dad/time

Configures the retransmit time interval for IPv6 Neighbor Discovery Neighbor Solicitation (NS) messages that are sent as part of duplicate address detection (DAD).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <ipv6-global-cmds xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
            <nd-global>
                <dad>
                    <global-dad-time>2</global-dad-time>
                </dad>
            </nd-global>
        </ipv6-global-cmds>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

global-dad-time

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

rbridge-id/{rbridge-number}/ipv6/prefix-list

Configures IPv6 prefix lists for use in basic traffic filtering.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <prefix-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
            <name>prefix1</name>
            <seq-keyword>seq</seq-keyword>
            <instance>2</instance>
            <action-ipp>deny</action-ipp>
            <ipv6-prefix-ipp>2001::/16</ipv6-prefix-ipp>
            <ge-ipp>90</ge-ipp>
            <le-ipp>100</le-ipp>
        </prefix-list>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

name

Specifies the prefixs 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

instance

Specifies an IPv6 prefix list sequence number

action-ipp

ipv6-prefix-ipp

ge-ipp

le-ipp

rbridge-id/{rbridge-number}/ipv6/protocol/vrrp

Globally enables IPv6 VRRPv3.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <proto-vrrpv3 xmlns="urn:brocade.com:mgmt:brocade-vrrpv3">
            <vrrp></vrrp>
        </proto-vrrpv3>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrrp

Enables IPv6 VRRPv3

rbridge-id/{rbridge-number}/ipv6/protocol/vrrp-extended

Globally enables IPv6 VRRP-Ev3.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <proto-vrrpv3 xmlns="urn:brocade.com:mgmt:brocade-vrrpv3">
            <vrrp-extended></vrrp-extended>
        </proto-vrrpv3>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrrp-extended

Enables IPv6 VRRP-Ev3

rbridge-id/{rbridge-number}/ipv6/receive

Configures IPv6 receive Access group.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <receive xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list">
            <access-group>
                <ipv6-access-list>ipv6-receive-acl-example</ipv6-access-list>
                <ip-direction>in</ip-direction>
            </access-group>
        </receive>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ipv6-access-list

Specifies IPv6 receive access group

ip-direction

Specifies ingress direction

rbridge-id/{rbridge-number}/ipv6/route

Configures a static IPv6 route for an interface, with a destination network, a next-hop gateway, and an optional administrative distance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <route xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm">
            <static-route-oif>
                <static-route-dest>2004:384d::23:24/128</static-route-dest>
                <static-route-oif-type>fortygigabitethernet</static-route-oif-type>
                <static-route-oif-name>1/0/50</static-route-oif-name>
                <route-attributes>
                    <metric>1</metric>
                    <distance>50</distance>
                    <tag>1</tag>
                </route-attributes>
            </static-route-oif>
        </route>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

static-route-dest

Specifies the destination IPv6 prefix

static-route-oif-type

static-route-oif-name

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

rbridge-id/{rbridge-number}/ipv6/route/next-hop-vrf

Configures a static IPv6 route for an interface, with a destination network and a next-hop gateway.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <route xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm">
            <ipv6-static-route-oif-vrf>
                <static-route-next-vrf-dest>2004:384d::23:24/128</static-route-next-vrf-dest>
                <next-hop-vrf>vrf1</next-hop-vrf>
                <static-route-oif-type>tengigabitethernet</static-route-oif-type>
                <static-route-oif-name>1/0/11</static-route-oif-name>
            </ipv6-static-route-oif-vrf>
        </route>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

static-route-next-vrf-dest

Specifies the IPv6 address of the next-hop gateway

next-hop-vrf

Specifies a VRF instance and a next-hop IPv6 address

static-route-oif-type

Represents a valid, physical Ethernet subtype for all available Ethernet speeds. Enter ? to see which interface subtypes are available. Replace **<N>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

static-route-oif-name

Specifies the ethernet name

rbridge-id/{rbridge-number}/ipv6/route/static/bfd/holdover-interval

Sets the time interval for which BFD session DOWN notifications are delayed before an IPv6 static route is notified that a BFD session is down.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <route xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm">
            <static>
                <bfd>
                    <ipv6-holdover-interval>1</ipv6-holdover-interval>
                </bfd>
            </static>
        </route>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ipv6-holdover-interval

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

rbridge-id/{rbridge-number}/ipv6/router/ospf

Enables and configures the Open Shortest Path First version 3 (OSPFv3) routing protocol over VRF.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the namer of the VRF

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/enable-peer-as-check

Enables the outbound AS_PATH check function so that a BGP sender speaker does not send routes with an AS path that contains the ASN of the receiving speaker.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
 <rbridge-id>2</rbridge-id>
   <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
     <router-bgp-attributes>
      <address-family>
       <ipv4>
        <ipv4-unicast>
          <default-vrf>
           <default-vrf-selected></default-vrf-selected>
             <neighbor>
               <af-ipv4-neighbor-address-holder>
                 <af-ipv4-neighbor-address>
                   <af-ipv4-neighbor-address>10.1.1.1</af-ipv4-neighbor-address>
                    <enable-peer-as-check></enable-peer-as-check>
                  </af-ipv4-neighbor-address>
               </af-ipv4-neighbor-address-holder>
             </neighbor>
         </address-family>
      </router-bgp>
   </router>
</rbridge-id>
```

Parameters

af-ipv4-neighbor-address

Specifies the IPv4 address of the neighbor

History

Release version	History
7.0.1	This Netconf call was introduced.

rbridge-id/{rbridge-number}/ipv6/router/ospf/area

Configures the Open Shortest Path First (OSPF) router area id.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <area>
                    <area-id>0</area-id>
                </area>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

area-id

Specifies the area address

A.B.C.D

Specifies area address in dotted decimal format

Specifies area address in decimal format

rbridge-id/{rbridge-number}/ipv6/router/ospf/area/authentication

Enables authentication for an Open Shortest Path First (OSPF) area.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <area>
                    <area-id>0</area-id>
                    <authentication>
                        <ipsec-auth-key-config>
                            <spi>750</spi>
                            <ah>hmac-md5</ah>
                            <ah-no-encrypt></ah-no-encrypt>
                            <ah-key>abcef12345678901234fedcba098765432109876</ah-key>
                        </ipsec-auth-key-config>
                    </authentication>
                </area>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

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

hmac-md5

Enables Hashed Message Authentication Code (HMAC) Message Digest 5 (MD5) authentication on the OSPF area

hmac-sha1

Enables HMAC Secure Hash Algorithm 1 (SHA-1) authentication on the OSPF area

esp

Specifies Encapsulating Security Payload (ESP) as the protocol to provide packet-level security

null

Specifies that the ESP payload is not encrypted

ah-no-encrypt

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

ah-key

Specifies the 40 hexadecimal character key

rbridge-id/{rbridge-number}/ipv6/router/ospf/area/nssa

Creates a not-so-stubby area (NSSA) or modifies its parameters

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <area>
                    <area-id>1.1.1.1</area-id>
                    <nssa>
                        <area-default-information-originate>
                            <area-default-information-originate-metric>12</area-default-information-
originate-metric>
                            <area-default-information-originate-metric-type>type1</area-default-
information-originate-metric-type>
                        </area-default-information-originate>
                    </nssa>
                </area>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

area-id

Specifies the area address

area-default-information-originate-metric

area-default-information-originate-metric-type

rbridge-id/{rbridge-number}/ipv6/router/ospf/area/range

Specifies area range parameters on an Area Border Router (ABR).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <area>
                    <area-id>1.1.1.1</area-id>
                    <area-range>
                        <range-address>2004:384d::23:24/128</range-address>
                        <range-effect>advertise</range-effect>
                        <range-cost>1</range-cost>
                    </area-range>
                </area>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

area-id

Specifies the area address

range-address

Specifies the IPv6 address and mask portion of the range

range-effect

Specifies the range effect

advertise

Sets the address range status to advertise and generates a Type 3 summary LSA

not-advertise

Sets the address range status to DoNotAdvertise; the Type 3 LSA is suppressed, and the component networks remain hidden from other networks

range-cost

Sets the cost value for the area range. The value can range from 1 to 6777214

rbridge-id/{rbridge-number}/ipv6/router/ospf/area/stub

Creates a stub area or modifies its parameters.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>vrf1</vrf>
                <area>
                    <area-id>1</area-id>
                    <stub>
                        <stub-area-no-summary></stub-area-no-summary>
                        <stub-area-metric>12</stub-area-metric>
                    </stub>
                </area>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

SZpecifies the VRF name

area-id

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

stub-area-no-summary

When configured on the ABR, prevents any Type 3 and Type 4 summary LSAs from being injected into the area.

stub-area-metric

Specifies the additional cost for using a route to or from this area. The value can range from 3 through 1048575

rbridge-id/{rbridge-number}/ipv6/router/ospf/area/virtual-link

Creates virtual links for an area.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>vrf1</vrf>
                <area>
                    <area-id>1</area-id>
                    <normal></normal>
                    <virtual-link>
                        <virtual-link-neighbor>1.1.1.1</virtual-link-neighbor>
                    </virtual-link>
                </area>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

area-id

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

virtual-link-neighbor

Specifies the virtual link neighbor router ID

rbridge-id/{rbridge-number}/ipv6/router/ospf/area/virtual-link/dead-interval

Configures how long a neighbor router waits for a hello packet from the current router before declaring the router down.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>vrf1</vrf>
                <area>
                    <area-id>1</area-id>
                    <virtual-link>
                        <virtual-link-neighbor>1.1.1.1</virtual-link-neighbor>
                        <link-properties>
                            <link-interval-properties>
                                <dead-interval>45</dead-interval>
                            </link-interval-properties>
                        </link-properties>
                    </virtual-link>
                </area>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

area-id

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

virtual-link-neighbor

Specifies the virtual link neighbor router ID

dead-interval

Specifies how long a neighbor router waits for a hello packet from the current router before declaring the router down. This value must be the same for all routers and access servers that are attached to a common network. The values can range from 3through 65535 seconds. The default is interval is 40 seconds

rbridge-id/{rbridge-number}/ipv6/router/ospf/area/virtual-link/hello-interval

Configures the time between hello packets that the router sends on an interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>vrf1</vrf>
                <area>
                    <area-id>1</area-id>
                    <normal></normal>
                    <virtual-link>
                        <virtual-link-neighbor>1.1.1.1</virtual-link-neighbor>
                        <link-properties>
                            <link-interval-properties>
                                <hello-interval>13</hello-interval>
                            </link-interval-properties>
                        </link-properties>
                    </virtual-link>
                </area>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

area-id

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

virtual-link-neighbor

Specifies the virtual link neighbor router ID

hello-interval

Specifies the time between hello packets that the router sends on an interface. The value must be the same for all routers and access servers that are attached to a common network. The values can range from 1 through 65535 seconds. The default interval is 10 seconds

rbridge-id/{rbridge-number}/ipv6/router/ospf/area/virtual-link/hello-jitter

Configures allowed jitter between hello packets.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>vrf1</vrf>
                <area>
                    <area-id>1</area-id>
                    <normal></normal>
                    <virtual-link>
                        <virtual-link-neighbor>1.1.1.1</virtual-link-neighbor>
                        <link-properties>
                            <link-interval-properties>
                                <hello-jitter>15</hello-jitter>
                            </link-interval-properties>
                        </link-properties>
                    </virtual-link>
                </area>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

area-id

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

virtual-link-neighbor

Specifies the virtual link neighbor router ID

hello-jitter

Specifies the allowed jitter between hello packets. The values can range from 1 through 50 percent. The default value is 10 percent

rbridge-id/{rbridge-number}/ipv6/router/ospf/auto-cost

Configures reference bandwidth.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <auto-cost>
                    <reference-bandwidth>20</reference-bandwidth>
                </auto-cost>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

reference-bandwidth

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

rbridge-id/{rbridge-number}/ipv6/router/ospf/bfd

Enables Bidirectional Forwarding Detection (BFD).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <bfd>
                    <bfd-enable></bfd-enable>
                </bfd>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

bfd-enable

Enables Bidirectional Forwarding Detection

rbridge-id/{rbridge-number}/ipv6/router/ospf/bfd/holdover-interval

Sets the time interval for which OSPF or BGP routes are withdrawn after a BFD session is declared down.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <bfd>
                    <bfd-holdover-interval>1</bfd-holdover-interval>
                </bfd>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

bfd-holdover-interval

Specifies BFD holdover-time interval in seconds. The value can range from from 1 through 20. The default value is 0

rbridge-id/{rbridge-number}/ipv6/router/ospf/database-overflow-interval

Configures frequency for monitoring database overflow.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <database-overflow-interval>11</database-overflow-interval>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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 interval can range from 0 through 86400 seconds (24 hours). The default interval is 10 seconds

rbridge-id/{rbridge-number}/ipv6/router/ospf/default-information-originate

Controls distribution of default information to an OSPF router.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <global-default-information-originate>
                    <global-default-information-originate-always></global-default-information-originate-
always>
                    <global-default-information-originate-metric>500</global-default-information-
originate-metric>
                    <global-default-information-originate-metric-type>type1</global-default-information-
originate-metric-type>
                </global-default-information-originate>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

global-default-information-originate-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

global-default-information-originate-metric

Used for generating the default route, this parameter specifies the cost for reaching the rest of the world through this route. The value can range from 1 through 65535. The default value is 10

global-default-information-originate-metric-type

Specifies how the cost of a neighbor metric is determined

type-1

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

type-2

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

rbridge-id/{rbridge-number}/ipv6/router/ospf/default-metric

Sets the default metric value for the OSPF or OSPFv3 routing protocol.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <default-metric>200</default-metric>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

default-metric

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

rbridge-id/{rbridge-number}/ipv6/router/ospf/default-passive-interface

Marks all OSPF and OSPFv3 interfaces passive by default.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <default-passive-interface></default-passive-interface>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

default-passive-interface

Marks all OSPF and OSPFv3 interfaces passive by default

rbridge-id/{rbridge-number}/ipv6/router/ospf/distance

Configures an administrative distance value for OSPF and OSPFv3 routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <distance>
                    <route-type>external</route-type>
                    <distance-value>20</distance-value>
                </distance>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

route-type

Specifies the route type

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

rbridge-id/{rbridge-number}/ipv6/router/ospf/distribute-list/prefix-list

Applies a prefix list to OSPF for IPv6 routing updates. Only routes permitted by the prefix-list can go into the routing table

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <distribute-list>
                    <prefix-list>
                        <distribute-list-prefix-list-name>name</distribute-list-prefix-list-name>
                        <distribute-list-prefix-list-in></distribute-list-prefix-list-in>
                    </prefix-list>
                </distribute-list>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

distribute-list-prefix-list-name

Specifies the name of the prefix list

distribute-list-prefix-list-in

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

rbridge-id/{rbridge-number}/ipv6/router/ospf/distribute-list/route-map

Creates a route-map distribution list.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <distribute-list>
                    <route-map>
                        <distribute-list-route-map-name>route</distribute-list-route-map-name>
                        <distribute-list-route-map-in></distribute-list-route-map-in>
                    </route-map>
                </distribute-list>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

distribute-list-route-map-name

Specifies the route map name

distribute-list-route-map-in

Creates a distribution list for an inbound route map

rbridge-id/{rbridge-number}/ipv6/router/ospf/external-lsdb-limit

Configures the maximum size of the external link state database (LSDB).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <external-lsdb-limit>200000</external-lsdb-limit>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

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

rbridge-id/{rbridge-number}/ipv6/router/ospf/graceful-restart/helper/disable

Disables the OSPFv3 graceful restart (GR) helper capability.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <graceful-restart>
                    <helper>
                        <graceful-restart-helper-disable></graceful-restart-helper-disable>
                    </helper>
                </graceful-restart>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

graceful-restart-helper-disable

Disables the OSPFv3 GR helper capability

rbridge-id/{rbridge-number}/ipv6/router/ospf/graceful-restart/helper/strict-lsa-checking

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

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <graceful-restart>
                    <helper>
                        <graceful-restart-helper-strict-lsa-checking></graceful-restart-helper-strict-
lsa-checking>
                    </helper>
                </graceful-restart>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

graceful-restart-helper-strict-lsa-checking

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

rbridge-id/{rbridge-number}/ipv6/router/ospf/key-add-remove-interval

Alters the timing of the authentication key add-remove interval.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <key-add-remove-interval>10</key-add-remove-interval>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

key-add-remove-interval

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

rbridge-id/{rbridge-number}/ipv6/router/ospf/key-rollover-interval

Alters the timing of the existing configuration changeover.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <key-rollover-interval>350</key-rollover-interval>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

key-rollover-interval

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

rbridge-id/{rbridge-number}/ipv6/router/ospf/log/adjacency

Controls the generation of OSPFv3 logs. Specifies the logging of essential OSPFv3 neighbor state changes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <log>
                    <log-adjacency>
                        <log-adjacency-dr-only></log-adjacency-dr-only>
                    </log-adjacency>
                </log>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

log-adjacency-dr-only

Specifies the logging of designated router interfaces

rbridge-id/{rbridge-number}/ipv6/router/ospf/log/all

Controls the generation of OSPFv3 logs. Specifies the logging of all syslog messages

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <log>
                    <log-all></log-all>
                </log>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

log-all

Specifies the logging of all syslog messages

rbridge-id/{rbridge-number}/ipv6/router/ospf/log/bad-packet

Controls the generation of OSPFv3 logs. Specifies the logging of bad OSPFv3 packets.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <log>
                    <log-bad-packet>
                        <log-bad-packet-checksum></log-bad-packet-checksum>
                    </log-bad-packet>
                </log>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

log-bad-packet-checksum

Specifies all OSPFv3 packets that have checksum errors

rbridge-id/{rbridge-number}/ipv6/router/ospf/log/database

Controls the generation of OSPFv3 logs. Specifies the logging of OSPFv3 LSA-related information.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <log>
                    <log-database></log-database>
                </log>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies teh VRF name

log-database

Specifies the logging of OSPFv3 LSA-related information.

rbridge-id/{rbridge-number}/ipv6/router/ospf/log/retransmit

Controls the generation of OSPFv3 logs. Specifies the logging of OSPFv3 retransmission activities.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <log>
                    <log-retransmit></log-retransmit>
                </log>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies teh VRF name

log-retransmit

Specifies the logging of OSPFv3 retransmission activities.

rbridge-id/{rbridge-number}/ipv6/router/ospf/max-metric/router-lsa/all-lsas

Advertises the maximum metric value in different Link State Advertisements (LSAs).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <max-metric>
                    <router-lsa>
                        <all-lsas></all-lsas>
                    </router-lsa>
                </max-metric>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

all-lsas

Sets the summary-lsa and external-lsa optional parameters to the corresponding default max-metric value.

rbridge-id/{rbridge-number}/ipv6/router/ospf/max-metric/router-lsa/external-lsa

Configures the maximum metric value for all external type-5 and type-7 LSAs.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <max-metric>
                    <router-lsa>
                        <external-lsa>
                            <external-lsa-value>25</external-lsa-value>
                        </external-lsa>
                    </router-lsa>
                </max-metric>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

external-lsa-value

Specifies the maximum metric value for all external type-5 and type-7 LSAs. The value can range from 1 through 16777214 (0x00001 - 0x00FFFFFE). The default value is 16711680 (0x00FF0000)

rbridge-id/{rbridge-number}/ipv6/router/ospf/max-metric/router-lsa/include-stub

Specifies the advertisement of the maximum metric value for point-to-point and broadcast stub links in the intra-area-prefix LSA.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <max-metric>
                    <router-lsa>
                        <include-stub></include-stub>
                    </router-lsa>
                </max-metric>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

include-stub

Configures include-stub for max-metric

rbridge-id/{rbridge-number}/ipv6/router/ospf/max-metric/router-lsa/on-startup

Applies the configuration change at the next OSPF startup.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <max-metric>
                    <router-lsa>
                        <on-startup>
                            <on-startup-time>10</on-startup-time>
                        </on-startup>
                    </router-lsa>
                </max-metric>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

on-startup-time

Sets the time (in seconds) for which the specified links in Router LSAs are advertised when the metric is set to the maximum value of 0xFFFF. The value can range from 5 to 86400

rbridge-id/{rbridge-number}/ipv6/router/ospf/max-metric/router-lsa/on-startup/wait-for-bgp

Configures the time the OSPFv3 should wait until BGP has finished route table convergence before advertising the links with the normal metric.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <max-metric>
                    <router-lsa>
                        <on-startup>
                            <wait-for-bgp></wait-for-bgp>
                        </on-startup>
                    </router-lsa>
                </max-metric>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

wait-for-bgp

Specifies teh wait time

rbridge-id/{rbridge-number}/ipv6/router/ospf/max-metric/router-lsa/summary-lsa

Configures the maximum metric value for all summary type 3 and type 4 LSAs.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <max-metric>
                    <router-lsa>
                        <summary-lsa>
                            <summary-lsa-value>15</summary-lsa-value>
                        </summary-lsa>
                    </router-lsa>
                </max-metric>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

summary-lsa-value

Specifies the the maximum metric value for all summary type 3 and type 4 LSAs. The value can range from 1 to 16777214 (0x00001 - 0x00FFFFFE). The default value is 16711680 (0x00FF0000)

rbridge-id/{rbridge-number}/ipv6/router/ospf/maximum-paths

Changes the maximum number of OSPF shared paths.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <maximum-paths>9</maximum-paths>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies teh VRF name

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

rbridge-id/{rbridge-number}/ipv6/router/ospf/metric-type

Configures the default metric type for external routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <global-metric-type>type1</global-metric-type>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

global-metric-type

Specifies the metric type

type1

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

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

rbridge-id/{rbridge-number}/ipv6/router/ospf/nonstop-routing

Enables nonstop-routing (NSR) for OSPFv3.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <nonstop-routing></nonstop-routing>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

nonstop-routing

Enables nonstop-routing (NSR) for OSPFv3

rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/bgp/metric

Enables route redistribution for BGP routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <redistribute>
                    <redistribute-bgp>
                        <redistribute-bgp-metric>2</redistribute-bgp-metric>
                    </redistribute-bgp>
                </redistribute>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

redistribute-bgp-metric

Specifies the route metric value. The value can range from 0 through 65535

rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/bgp/metric-type

Enables route redistribution for BGP routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <redistribute>
                    <redistribute-bgp>
                        <redistribute-bgp-metric-type>type1</redistribute-bgp-metric-type>
                    </redistribute-bgp>
                </redistribute>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

redistribute-bgp-metric-type

Specifies the metric type

type1

Specifies a type 1 external route

type2

Specifies a type 2 external route

rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/bgp/route-map

Enables route redistribution for BGP routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <redistribute>
                    <redistribute-bgp>
                        <bgp-route-map>route1</bgp-route-map>
                    </redistribute-bgp>
                </redistribute>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

bgp-route-map

Specifies a route map to be consulted before a route is added to the routing table

rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/connected/metric

Enables route distribution for connected routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <redistribute>
                    <redistribute-connected>
                        <redistribute-connected-metric>34</redistribute-connected-metric>
                    </redistribute-connected>
                </redistribute>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

redistribute-connected-metric

Specifies route metric value. The value can range from 0 through 65535

rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/connected/metric-type

Enables route distribution for connected routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <redistribute>
                    <redistribute-connected>
                        <redistribute-connected-metric-type>type1</redistribute-connected-metric-type>
                    </redistribute-connected>
                </redistribute>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

redistribute-connected-metric-type

Specifies the type of metric

type1

Specifies a type 1 external route

type2

Specifies a type 2 external route

rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/connected/route-map

Enables route distribution for connected routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <redistribute>
                    <redistribute-connected>
                        <connected-route-map>route2</connected-route-map>
                    </redistribute-connected>
                </redistribute>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

connected-route-map

Specifies the route map name

rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/ospf/metric

Enables route distribution for OSPF routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <redistribute>
                    <redistribute-ospf>
                        <redistribute-ospf-metric>3</redistribute-ospf-metric>
                    </redistribute-ospf>
                </redistribute>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

redistribute-ospf-metric

Specifies the route metric value. The value can range from 0 through 65535

rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/ospf/metric-type

Enables route distribution for OSPF routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <redistribute>
                    <redistribute-ospf>
                        <redistribute-ospf-metric-type>type1</redistribute-ospf-metric-type>
                    </redistribute-ospf>
                </redistribute>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

redistribute-ospf-metric-type

Specifies the

type1

Specifies a type 1 external route

type2

Specifies a type 2 external route

rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/ospf/route-map

Enables route distribution for OSPF routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <redistribute>
                    <redistribute-ospf>
                        <ospf-route-map>route</ospf-route-map>
                    </redistribute-ospf>
                </redistribute>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

ospf-route-map

Specifies the route map name

rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/static/metric

Enables route distribution for static routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <redistribute>
                    <redistribute-static>
                        <redistribute-static-metric>2</redistribute-static-metric>
                    </redistribute-static>
                </redistribute>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

redistribute-static-metric

Specifies the metric value. The value can range from 0 through 65535

rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/static/metric-type

Enables route distribution for static routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <redistribute>
                    <redistribute-static>
                        <redistribute-static-metric-type>type2</redistribute-static-metric-type>
                    </redistribute-static>
                </redistribute>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

redistribute-static-metric-type

Species the type of metric

type1

Specifies a type 1 external route

type2

Specifies a type 2 external route

rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/static/route-map

Enables route distribution for static routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <redistribute>
                    <redistribute-static>
                        <static-route-map>route3</static-route-map>
                    </redistribute-static>
                </redistribute>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

static-route-map

Specifies the route map name

rbridge-id/{rbridge-number}/ipv6/router/ospf/summary-address

Configures route summarization for redistributed routes for an Autonomous System Boundary Router (ASBR).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <summary-address>
                    <summary-address-value>2004:384d::23:24/128</summary-address-value>
                </summary-address>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

summary-address-value

Specifies the IPv6 summary address

rbridge-id/{rbridge-number}/ipv6/router/ospf/timers/lsa-group-pacing

Configures Link State Advertisement (LSA) pacing timers.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <timers>
                    <lsa-group-pacing>245</lsa-group-pacing>
                </timers>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

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

rbridge-id/{rbridge-number}/ipv6/router/ospf/timers/spf

Configures Shortest Path First (SPF) timers.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>default-vrf</vrf>
                <timers>
                    <spf>
                        <spf-delay>200</spf-delay>
                        <spf-hold-time>250</spf-hold-time>
                    </spf>
                </timers>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

spf-delay

Specifies initial SPF calculation delay. The value can range from 0 to 65535 seconds. The default value is 5 seconds

spf-hold-time

Specifies the minimum hold time between two consecutive SPF calculations. The value can range from 0 to 65535 seconds. The default value is 10 milliseconds

rbridge-id/{rbridge-number}/logical-chassis

Sets the priority of a switch to assign a specific RBridge ID the role of principal node in a logical chassis cluster.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <logical-chassis xmlns="http://brocade.com/ns/brocade-logical-chassis">
        <principal-priority>2</principal-priority>
    </logical-chassis>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

principal-priority

Specifies the priority for the switch. A lower number means a higher priority. The value can range from 1 through 128

rbridge-id/{rbridge-number}/maps/email

Configures the domain name for Monitoring and Alerting Policy Suite (MAPS) notifications.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <maps xmlns="urn:brocade.com:mgmt:brocade-maps">
        <email>
            <email-list>
                <email>admin@abc123.com</email>
            </email-list>
        </email>
    </maps>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

email

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

rbridge-id/{rbridge-number}/maps/enable

Enables and sets the policy thresholds for Monitoring and Alerting Policy Suite (MAPS). MAPS policies are designed in a way that thresholds are pre-set to aggressive, moderate, or conservative based on how sensitive the actions are needed.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <maps xmlns="urn:brocade.com:mgmt:brocade-maps">
        <enable>
            <policy>dflt_conservative_policy</policy>
            <actions>RASLOG</actions>
        </enable>
    </maps>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

policy

Specifies the policy name

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 inbetween 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 for 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

rbridge-id/{rbridge-number}/maps/group

Creates a user-defined logical group for either SFP or Ethernet ports for use in Monitoring and Alerting Priority Suite (MAPS).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>103</rbridge-id>
    <maps xmlns="urn:brocade.com:mgmt:brocade-maps">
        <logicalgroup>
            <logicalgroupname>group1</logicalgroupname>
            <elementtype>interface</elementtype>
            <members>103/4/10</members>
        </logicalgroup>
    </maps>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

logicalgroupname

Specifies the name of the logical group

elementtype

Defines which type of port is assigned to the members of the group

sfp

Configures the logical group as SFP ports

interface

Configures the logical group as Ethernet ports

members

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

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/maps/policy

Creates and modifies used-defined policies for Monitoring and Alerting Priority Suite (MAPS).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>106</rbridge-id>
    <maps xmlns="urn:brocade.com:mgmt:brocade-maps">
        <policy>
            <policyname>policy1</policyname>
        </policy>
    </maps>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

policyname

Specifies the name of the user-defined policy

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/maps/relay

Configures the IP relay address for Monitoring and Alerting Policy Suite (MAPS) notifications.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <maps xmlns="urn:brocade.com:mgmt:brocade-maps">
        <relay>
            <hostip>10.25.248.25</hostip>
            <domainname>abc123.com</domainname>
        </relay>
    </maps>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

hostip

Specifies the destination relay for MAPS notifications

domainname

Specifies the destination domain name for MAPS notifications

rbridge-id/{rbridge-number}/maps/rule

Creates and modifies user-defined rules for Monitoring and Alerting Policy Suite (MAPS)

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>106</rbridge-id>
    <maps xmlns="urn:brocade.com:mgmt:brocade-maps">
        <rule>
            <rulename>rule1</rulename>
            <targetgroup>group1</targetgroup>
            <monitor>SFP_TEMP</monitor>
            <timebase>none</timebase>
            <op>le</op>
            <threshold>10</threshold>
        </rule>
    </maps>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

rulename

Specifies the name for this user-defined rule

targetgroup

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

monitor

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

timebase

Defines how often the rule is executed

none

There is no interval. The rule is always applied

min

The response is triggered if the rule is broken once within the last 60 seconds

hour

The response is triggered if the rule is broken once within the last 60 minutes

day

The response is triggered if the rule is broken once within the last 24 hours

op

Defines the defined as the mathematical operator for the rule

gt

Stands for the "greater than" symbol (>)

lt

Stands for the "less than" symbol (<)

ge
Stands for the "greater than or equal to" symbol (>=)

le
Stands for the "less than or equal to" symbol (<=)

eq
Stands for the "equals" symbol (=)

threshold
Specifies the value at which the operator is triggered

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/openflow/logical-instance

Creates an OpenFlow logical instance, enables a variety of options under OpenFlow logical-instance configuration mode, and also associates the logical instance with an interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <openflow xmlns="urn:brocade.com:mgmt:brocade-openflow">
        <logical-instance>
            <instance-id>1</instance-id>
        </logical-instance>
    </openflow>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

instance-id

Specifies the logical instance number

rbridge-id/{rbridge-number}/openflow/logical-instance/activate

Activates an OpenFlow logical instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <openflow xmlns="urn:brocade.com:mgmt:brocade-openflow">
        <logical-instance>
            <instance-id>1</instance-id>
            <activate></activate>
        </logical-instance>
    </openflow>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

instance-id

Specifies the logical instance number

activate

Activates an OpenFlow logical instance

rbridge-id/{rbridge-number}/openflow/logical-instance/controller

Specifies the global name of an OpenFlow controller in OpenFlow logical-instance configuration mode.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <openflow xmlns="urn:brocade.com:mgmt:brocade-openflow">
        <logical-instance>
            <instance-id>1</instance-id>
            <controller>
                <controller-name>openflowcont1</controller-name>
            </controller>
        </logical-instance>
    </openflow>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

instance-id

Specifies the logical instance ID

controller-name

Specifies the already-created name of an OpenFlow conroller

rbridge-id/{rbridge-number}/openflow/logical-instance/default-behavior

Configures default table-miss behavior for an OpenFlow logical instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <openflow xmlns="urn:brocade.com:mgmt:brocade-openflow">
        <logical-instance>
            <instance-id>1</instance-id>
            <default-forwarding-action>send-to-controller</default-forwarding-action>
        </logical-instance>
    </openflow>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

instance-id

Specifies the logical instance ID

default-forwarding-action

Specifies the default table-miss behavior

drop

Drops packets in case of a table miss

send-to-controller

Sends packets to the controller in case of a table miss

rbridge-id/{rbridge-number}/openflow/logical-instance/passive

Specifies the behavior of a passive OpenFlow controller connection in OpenFlow logical-instance configuration mode.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <openflow xmlns="urn:brocade.com:mgmt:brocade-openflow">
        <logical-instance>
            <instance-id>1</instance-id>
            <passive>
                <no-ssl>
                    <passive-controller-flag></passive-controller-flag>
                    <passive-controller-ip-address>1.1.1.1</passive-controller-ip-address>
                    <passive-controller-port>1</passive-controller-port>
                    <passive-controller-vrf>vrf1</passive-controller-vrf>
                </no-ssl>
            </passive>
        </logical-instance>
    </openflow>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

instance-id
: Specifies the logical instance ID

passive-controller-ip-address
: Specifies the controller address

passive-controller-port
: Specifies a TCP port to which remote controllers connect. The value can range from 1 through 65535

passive-controller-vrf

rbridge-id/{rbridge-number}/openflow/logical-instance/version

Specifies the OpenFlow version to be used.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <openflow xmlns="urn:brocade.com:mgmt:brocade-openflow">
        <logical-instance>
            <instance-id>1</instance-id>
            <version>
                <version-name>ofv130</version-name>
            </version>
        </logical-instance>
    </openflow>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

instance-id

Specifies the logical instance ID

version-name

ofv130 is the only version currently available

rbridge-id/{rbridge-number}/protocol/vrrp

Globally enables VRRP (and VRRP-E on some platforms).

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
    <rbridge-id>27</rbridge-id>
    <protocol xmlns=""urn:brocade.com:mgmt:brocade-interface"">
        <hide-vrrp-holder xmlns=""urn:brocade.com:mgmt:brocade-vrrp"">
            <vrrp></vrrp>
        </hide-vrrp-holder>
    </protocol>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrrp

Enables VRRP

rbridge-id/{rbridge-number}/protocol/vrrp-extended

Globally enables VRRP-Extended.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
        <hide-vrrp-holder xmlns="urn:brocade.com:mgmt:brocade-vrrp">
            <vrrp-extended></vrrp-extended>
        </hide-vrrp-holder>
    </protocol>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrrp-extended

enables VRRP-Extended globally

rbridge-id/{rbridge-number}/qos/rcv-queue

Controls high burst traffic received on the Extreme VDX 6740.

Usage

```
<rbridge-id xmlns="urn:extreme.com:mgmt:extreme-rbridge">
    <rbridge-id>1</rbridge-id>
    <qos xmlns="urn:extreme.com:mgmt:extreme-qos">
        <rcv-queue>
            <rcv-queue-limit>300</rcv-queue-limit>
        </rcv-queue>
    </qos>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

rcv-queue-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

rbridge-id/{rbridge-number}/qos/tx-queue

Controls high burst traffic transmitted on the Extreme VDX 6740.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
        <tx-queue>
            <tx-queue-limit>550</tx-queue-limit>
        </tx-queue>
    </qos>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

tx-queue-limit

Specifies the upper limit of buffering for the port. The value can range from 128 through 8000. The default value is 512

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

Enables Internet Storage Name Services (iSNS) configuration mode, providing a variety of configuration options.

Usage

```
<rpc-reply xmlns=""urn:ietf:params:xml:ns:netconf:base:1.0"" message-id=""200"">
   <data>
      <rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
         <rbridge-id>5</rbridge-id>
         <resource-monitor xmlns=""urn:brocade.com:mgmt:brocade-resource-monitor"">
            <memory>
               <enable-memory></enable-memory>
               <threshold-memory>100</threshold-memory>
               <action-memory>raslog</action-memory>
               <sample-rate-memory>30</sample-rate-memory>
               <logging-rate-memory>30</logging-rate-memory>
               <grace-period-memory>24</grace-period-memory>
            </memory>
         </resource-monitor>
      </rbridge-id>
   </data
```

Parameters

rbridge-id
: Specifies the RBridge ID.

enable-memory
: Enables memory monitoring.

threshold-memory
: Specifies the threshold memory value.

action-memory
: Specifies the threshold memory value.

sample-rate-memory
: Specifies the sample rate memory value.

grace-period-memory
: Specifies the value for the grace period memory.

History

Release version	History
7.1.0	This NETCONF call was introduced.

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

Configures an alarm for the process memory.

Usage

```
<rpc-reply xmlns=""urn:ietf:params:xml:ns:netconf:base:1.0"" message-id=""200"">
   <data>
      <rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
         <rbridge-id>5</rbridge-id>
         <resource-monitor xmlns=""urn:brocade.com:mgmt:brocade-resource-monitor"">
            <process>
               <memory>
                  <enable-process></enable-process>
                  <thresh-mem-alarm>600</thresh-mem-alarm>
                  <thresh-mem-critic>700</thresh-mem-critic>
               </memory>
            </process>
         </resource-monitor>
      </rbridge-id>
   </data>
</rpc-reply>
```

Parameters

rbridge-id
: Specifies the RBridge ID.

process
: Specifies to monitor the process.

memory
: Specifies to monitor memory.

enable-process
: Enables process monitoring.

thresh-mem-alarm
: Specifies the threshold memory alarm.

thresh-mem-critic
: Specifies the critical memory alarm.

History

Release version	History
7.1.0	This NETCONF call was introduced.

rbridge-id/{rbridge-number}/root/access

Restricts the root access to the device to the console only.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <root xmlns="urn:brocade.com:mgmt:brocade-aaa">
        <access>console</access>
    </root>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

access

Restricts the root access to the device to the console only

rbridge-id/{rbridge-number}/root/enable

Enables root access to the device following a firmware configuration.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <root xmlns="urn:brocade.com:mgmt:brocade-aaa">
        <enable></enable>
    </root>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

enable

Enables root access to the device following a firmware configuration

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

Creates a route map instance, with a variety of options.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

rbridge-id/{rbridge-number}/route-map/continue

Creates a route map instance, with a variety of options

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <continue-holder>
                <continue></continue>
                <continue-val>5</continue-val>
            </continue-holder>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

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

rbridge-id/{rbridge-number}/route-map/match/as-path

Matches an AS-path access list name in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <match>
                <as-path>
                    <as-path-access-list-name>acl12 </as-path-access-list-name>
                </as-path>
            </match>
        </content>
    </route-map>
</rbidge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

as-path-access-list-name

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

rbridge-id/{rbridge-number}/route-map/match/community

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

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <match>
                <community>
                    <community-access-list-name>acl11 exact-match</community-access-list-name>
                </community>
            </match>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

community-access-list-name

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

rbridge-id/{rbridge-number}/route-map/match/extcommunity

Matches a BGP extended community list in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <match>
                <extcommunity>
                    <extcommunity-num>5</extcommunity-num>
                </extcommunity>
            </match>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

extcommunity-num

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

rbridge-id/{rbridge-number}/route-map/match/interface

Matches interface conditions in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <match>
                <interface>
                    <tengigabitethernet-rmm>1/0/5</tengigabitethernet-rmm>
                </interface>
            </match>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

rbridge-id/{rbridge-number}/route-map/match/ip/address

Matches IP address conditions in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <match>
                <ip>
                    <address>
                        <acl-rmm>acl12</acl-rmm>
                    </address>
                </ip>
            </match>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

acl-rmm

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

rbridge-id/{rbridge-number}/route-map/match/ip/next-hop

Matches IP next-hop match conditions in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>deny</action-rm>
        <instance>1</instance>
        <content>
            <match>
                <ip>
                    <next-hop>
                        <prefix-list-rmm-n>prefix1</prefix-list-rmm-n>
                    </next-hop>
                </ip>
            </match>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

prefix-list-rmm-n

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

rbridge-id/{rbridge-number}/route-map/match/ip/route-source

Configures source address of route.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>deny</action-rm>
        <instance>1</instance>
        <content>
            <match>
                <ip>
                    <route-source>
                        <prefix-list-rmrs>prefix1</prefix-list-rmrs>
                    </route-source>
                </ip>
            </match>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

prefix-list-rmrs

Specifies the nameof the prefix list

rbridge-id/{rbridge-number}/route-map/match/metric

Matches a route metric in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <match>
                <metric>
                    <metric-rmm>5</metric-rmm>
                </metric>
            </match>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

metric-rmm

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

rbridge-id/{rbridge-number}/route-map/match/protocol/bgp

Matches BGP routes on protocol types and subtypes in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <match>
                <protocol>
                    <bgp-protocol-container>
                        <protocol-bgp></protocol-bgp>
                        <bgp-route-type>external</bgp-route-type>
                    </bgp-protocol-container>
                </protocol>
            </match>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

protocol-bgp

Matches BGP routes on protocol types

bgp-route-type

Specifies the match type

external

Matches EBGP routes

internal

Matches IBGP routes

static-network

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

rbridge-id/{rbridge-number}/route-map/match/route-type

Matches a route type in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <match>
                <route-type>
                    <route-type-rmm>type-2</route-type-rmm>
                </route-type>
            </match>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

route-type-rmm

Specifies the route type

internal

Internal route type

type-1

OSPF external route type 1

type-2

OSPF external route type 2

rbridge-id/{rbridge-number}/route-map/match/tag

Matches a route tag in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <match>
                <tag>
                    <tag-rmm>200</tag-rmm>
                </tag>
            </match>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

tag-rmm

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

rbridge-id/{rbridge-number}/route-map/match/vrf

Matches a VRF in a route-map instance

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <match>
                <vrf>vrf1</vrf>
            </match>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

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

rbridge-id/{rbridge-number}/route-map/set/as-path/prepend

Sets a prepended string for a BGP AS-path attribute in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <as-path>
                    <prepend>23</prepend>
                </as-path>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

prepend

Prepends the string to the AS-path. The value can range from 1 through 4294967295

rbridge-id/{rbridge-number}/route-map/set/as-path/tag

Sets a tag for a BGP AS-path attribute in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <as-path>
                    <aspath-tag></aspath-tag>
                </as-path>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

aspath-tag

Sets a route tag

rbridge-id/{rbridge-number}/route-map/set/automatic-tag

Sets the route-map tag value.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <automatic-tag>
                    <tag-empty></tag-empty>
                </automatic-tag>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

tag-empty

rbridge-id/{rbridge-number}/route-map/set/comm-list

Sets a BGP community list for deletion in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <comm-list>
                    <comm-list-name>comm1</comm-list-name>
                    <match-comm-delete></match-comm-delete>
                </comm-list>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

comm-list-name

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

rbridge-id/{rbridge-number}/route-map/set/community

Sets a BGP community attribute in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <community>
                    <set-community-expr>additiveinternet</set-community-expr>
                </community>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

set-community-expr

rbridge-id/{rbridge-number}/route-map/set/dampening

Sets a BGP route-flap dampening penalty in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <dampening>
                    <half-life>20</half-life>
                </dampening>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

half-life

Specifies the half-life in minutes for the penalty. The value can range from 1 through 45. The default value is 15

rbridge-id/{rbridge-number}/route-map/set/distance

Sets the administrative distance for matching OSPF routes in route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <distance>
                    <dist-rms>25</dist-rms>
                </distance>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

dist-rms

Specifies the administrative distance for the route. The value can range from 1 through 254

rbridge-id/{rbridge-number}/route-map/set/dscp

Configures the DSCP field value in IP header when a packet matches a flow.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <ip>
                    <dscp>
                        <dscp-rms>25</dscp-rms>
                    </dscp>
                </ip>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

dscp-rms

Specifies the DSCP value in the IP header of the classified traffic. The value can range from range of valid 0 through 63

rbridge-id/{rbridge-number}/route-map/set/extcommunity/rt

Sets an extended BGP community attribute in a route-map instance and sets the route target (RT) extended community attribute.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <extcommunity>
                    <rt>
                        <ASN-NN-rt>2005:2002 additive </ASN-NN-rt>
                    </rt>
                </extcommunity>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

ASN-NN-rt

Specifies the Autonomous system (AS) number and network number

rbridge-id/{rbridge-number}/route-map/set/extcommunity/soo

Sets an extended BGP community attribute in a route-map instance and specifies the site of origin (SOO) extended community attribute.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <extcommunity>
                    <soo>
                        <ASN-NN-soo>2004:2003</ASN-NN-soo>
                    </soo>
                </extcommunity>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

ASN-NN-soo

Specifies the Autonomous system (AS) number and network number

rbridge-id/{rbridge-number}/route-map/set/ip/global

Specifies that the next specified hop address is to be resolved from the global routing table.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <ip>
                    <global>
                        <next-global-hop>
                            <next-hop>1.1.1.1</next-hop>
                        </next-global-hop>
                    </global>
                </ip>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

next-hop

Specifies teh IP address

rbridge-id/{rbridge-number}/route-map/set/ip/interface

Drops traffic when the null 0 statement becomes the active setting as determined by the route-hop selection process.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <ip>
                    <interface>
                        <null0></null0>
                    </interface>
                </ip>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

null0

Drops traffic when the null 0 statement becomes the active setting

rbridge-id/{rbridge-number}/route-map/set/ip/next-hop

Sets the IPv4 address of the next hop in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <ip>
                    <next-ip>
                        <next-hop>
                            <next-hop>21.1.1.1</next-hop>
                        </next-hop>
                    </next-ip>
                </ip>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

next-hop

Specifies the IPv4 address of the next hop

rbridge-id/{rbridge-number}/route-map/set/ip/next-hop/vrf

Sets the VRF for the next hop in a route-map instance

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <ip>
                    <next-vrf>
                        <next-vrf-list>
                            <vrf>vrf1</vrf>
                            <next-hop>1.1.1.1</next-hop>
                        </next-vrf-list>
                    </next-vrf>
                </ip>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

vrf

Specifies the VRF name

next-hop

Sets the next hop to which to route the packet

rbridge-id/{rbridge-number}/route-map/set/local-preference

Sets a BGP local-preference path attribute in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <local-preference>
                    <local-preference-value>50</local-preference-value>
                </local-preference>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

local-preference-value

Specifies the local preference value. The value can range from 0 through 4294967295

rbridge-id/{rbridge-number}/route-map/set/metric

Configures the route metric set clause in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <metric>
                    <delta-rms>add</delta-rms>
                    <metric-rms>3</metric-rms>
                </metric>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

delta-rms

Specifies the metric type

add

Adds the value to the current route metric

assign

Replaces the current route metric with this value

sub

Subtracts the value from the current route metric

none

Removes the current route metric

metric-rms

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

rbridge-id/{rbridge-number}/route-map/set/metric-type

Sets a variety of metric types for destination routing in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <metric-type>
                    <type-1></type-1>
                </metric-type>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

metric-type

Specifies the metric-type

external

IS-IS external metric

internal

IGP internal metric to BGP MED

type-1

OSPF external type-1 metric

type-2

OSPF external type-2 metric

rbridge-id/{rbridge-number}/route-map/set/origin

Sets a BGP origin code in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <origin>
                    <origin-igp></origin-igp>
                </origin>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

origin

Specifies the origin type

igp

Local IGP

incomplete

Unknown heritage

rbridge-id/{rbridge-number}/route-map/set/route-type

Sets a route type in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <tag>
                    <tag-rms>54</tag-rms>
                </tag>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

rbridge-id/{rbridge-number}/route-map/set/tag

Sets the route tag value in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <tag>
                    <tag-rms>54</tag-rms>
                </tag>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

tag-rms

Specifies the tag clause value for the route-map. The value can range from 0 through 4294967295

rbridge-id/{rbridge-number}/route-map/set/weight

Sets a BGP weight for the routing table in a route-map instance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <name>route1</name>
        <action-rm>permit</action-rm>
        <instance>1</instance>
        <content>
            <set>
                <weight>
                    <weight-value>45</weight-value>
                </weight>
            </set>
        </content>
    </route-map>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

permit

Allows a matching pattern

deny

Disallows a matching pattern

instance

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

weight-value

Specifies the weight value. The value can range from 0 through 65535

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

Enables BGP routing.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp"></router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-bgp

Enables BGP routing

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast

Enables the IPv4 address family configuration mode to configure a variety of BGP4 unicast routing options

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <af-vrf>
                            <af-vrf-name>red</af-vrf-name>
                        </af-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-vrf-name

Specifies the VRF name

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/aggregate-address/advertise-map

Configures the device to advertise the more-specific routes in the specified route map.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <aggregate-address>
                                <aggregate-ip-prefix>5.0.0.0/8</aggregate-ip-prefix>
                                <advertise-map>route1</advertise-map>
                            </aggregate-address>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

aggregate-ip-prefix

Specifies the IPv4 address

advertise-map

Specifies a route map to be consulted

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/aggregate-address/as-set

Sets the device to aggregate AS-path information for all routes in the aggregate routes from a range of networks into a single network prefix.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <aggregate-address>
                                <aggregate-ip-prefix>5.0.0.0/8</aggregate-ip-prefix>
                                <as-set></as-set>
                            </aggregate-address>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

aggregate-ip-prefix

Specifies the IPv4 address

as-set

Sets the device to aggregate AS-path information

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/aggregate-address/attribute-map

Sets the device to set attributes for the aggregate routes according to the specified route map.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <aggregate-address>
                                <aggregate-ip-prefix>5.0.0.0/8</aggregate-ip-prefix>
                                <attribute-map>route1</attribute-map>
                            </aggregate-address>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

aggregate-ip-prefix

Specifies the IPv4 address

attribute-map

Specifies a route map to be consulted

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/aggregate-address/summary-only

Configures the device to aggregate routes from a range of networks into a single network prefix.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <aggregate-address>
                                <aggregate-ip-prefix>100.1.0.0/16</aggregate-ip-prefix>
                                <summary-only></summary-only>
                            </aggregate-address>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

aggregate-ip-prefix

Specifies the IPv4 address

summary-only

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

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/aggregate-address/suppress-map

Prevents the more-specific routes contained in the specified route map from being advertised.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <aggregate-address>
                                <aggregate-ip-prefix>5.0.0.0/8</aggregate-ip-prefix>
                                <suppress-map>route1</suppress-map>
                            </aggregate-address>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

aggregate-ip-prefix

Specifies the IPv4 address

suppress-map

Specifies a route map to be consulted

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/always-propagate

Enables the device to reflect BGP routes even though they are not installed in the Routing Table Manager (RTM).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <af-vrf>
                            <af-vrf-name>red</af-vrf-name>
                            <always-propagate></always-propagate>
                        </af-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-vrf-name

Specifies the VRF name

always-propagate

Configures the device to reflect BGP routes that are not installed in the RTM

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/bgp-redistribute-internal

Causes the device to allow the redistribution of IBGP routes from BGP into OSPF for non-default VRF instances.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <af-vrf>
                            <af-vrf-name>red</af-vrf-name>
                            <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                                <bgp-redistribute-internal></bgp-redistribute-internal>
                            </af-ipv4-uc-and-vrf-cmds-call-point-holder>
                        </af-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-vrf-name

Specifies teh VRF name

bgp-redistribute-internal

Enables BGP4 route redistribution

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/client-to-client-reflection

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

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <af-vrf>
                            <af-vrf-name>red</af-vrf-name>
                            <client-to-client-reflection></client-to-client-reflection>
                        </af-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-vrf-name

Specifies the VRF name

client-to-client-reflection

Configures client-to-client reflection on the BGP4 host device

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/dampening

Sets dampening parameters for the route in BGP address-family mode.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <dampening>
                                    <values>
                                        <half-time>20</half-time>
                                        <reuse-value>751</reuse-value>
                                        <start-suppress-time>2001</start-suppress-time>
                                        <max-suppress-time>41</max-suppress-time>
                                    </values>
                                </dampening>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/dampening/route-map

Enables selection of dampening values established in a route map.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <dampening>
                                    <dampening-route-map>route1</dampening-route-map>
                                </dampening>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

dampening-route-map

Specifies the name of the configured route map

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/default-information-originate

Configures the device to originate and advertise a default BGP4 or BGP4+ route.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <default-information-originate></default-information-originate>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

default-information-originate

Sets the device to originate and advertise a default BGP4 or BGP4+ route.

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/default-metric

Changes the default metric used for redistribution.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <default-metric>2</default-metric>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

default-metric

Specifies the metric value. The value can range from 0 through 4294967295. The default value is 1

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/graceful-restart/purge-time

Enables BGP graceful restart time before restarting router clean up stale.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <graceful-restart>
                                    <purge-time>10</purge-time>
                                </graceful-restart>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbidge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

purge-time

Specifies the maximum time before restarting router clean up stale time. The value can range from 1 through 3600 seconds. The default time is 600 seconds

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/graceful-restart/restart-time

Enables BGP graceful restart wait time advertised to neighbors.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <graceful-restart>
                                    <restart-time>100</restart-time>
                                </graceful-restart>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

restart-time

Specifies the maximum restart wait time advertised to neighbors. The value can range from 1 through 3600 seconds. The default time is 120 seconds

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/graceful-restart/stale-routes-time

Enables BGP graceful restart time before helper router cleanup stale routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <graceful-restart>
                                    <stale-routes-time>150</stale-routes-time>
                                </graceful-restart>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

stale-routes-time

Specifies the maximum time before helper router cleanup stale routes. The value can range from 1 through 3600 seconds. The default time is 360 seconds

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/maximum-paths

Sets the maximum number of BGP4 and BGP4+ shared paths.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <maximum-paths>
                                    <load-sharing-value>29</load-sharing-value>
                                </maximum-paths>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

load-sharing-value

Specifies the maximum number of paths across which the device balances traffic to a given BGP4 destination. The value can range from 1 through 32 for the Extreme VDX 8770 and Extreme VDX 6940; the value can range from 1 through 16 for the Extreme VDX 6740. The default value is 1 for all platforms

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/maximum-paths/ebgp

Configures number of EBGP paths for load sharing.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <maximum-paths>
                                    <ebgp>30</ebgp>
                                </maximum-paths>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ebgp

Specifies the number of EBGP paths. The value can range from 1 through 32. The default value is all

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/maximum-paths/ibgp

Configures the number of IBGP paths for load sharing.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <maximum-paths>
                                    <ibgp>31</ibgp>
                                </maximum-paths>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ibgp

Specifies the number of IBGP paths for load sharing. The value can range from 1 through 32. The default value is all

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/maximum-paths/use-load-sharing

Uses the maximum IP ECMP path value.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <maximum-paths>
                                    <use-load-sharing></use-load-sharing>
                                </maximum-paths>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

use-load-sharing

Uses the maximum IP ECMP path value

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/multipath/ebgp

Changes load sharing to apply to only EBGP paths.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <multipath>
                                    <ebgp></ebgp>
                                </multipath>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ebgp

Enables load sharing of EBGP paths only

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/multipath/ibgp

Changes load sharing to apply to only IBGP paths.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <multipath>
                                    <ibgp></ibgp>
                                </multipath>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ibgp

Enables load sharing of IBGP paths only

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/multipath/multi-as

Changes load sharing to support load sharing among paths from different neighboring autonomous systems.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <af-common-cmds-holder>
                                <multipath>
                                    <multi-as></multi-as>
                                </multipath>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

multi-as

Enables load sharing of paths from different neighboring autonomous systems

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/activate

Allows exchange of routes in the current family mode.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>103</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv4-neighbor-address-holder>
                                    <af-ipv4-neighbor-address>
                                        <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-neighbor-address>
                                        <activate></activate>
                                    </af-ipv4-neighbor-address>
                                </af-ipv4-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv4-neighbor-address

Specifies the BGP neighbor address

activate

Allows exchange of routes in the current family mode

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/additional-paths/advertise/all

Applies filters for the advertisement of all additional paths for BGP neighbors.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv4-neighbor-address-holder>
                                    <af-ipv4-neighbor-address>
                                        <af-ipv4-neighbor-address>10.10.10.1</af-ipv4-neighbor-address>
                                        <additional-paths>
                                            <advertise>
                                                <all></all>
                                            </advertise>
                                        </additional-paths>
                                    </af-ipv4-neighbor-address>
                                </af-ipv4-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv4-neighbor-address

Specifies the BGP neighbor address

all

Advertises all BGP additional paths with a unique next hop

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/additional-paths/advertise/best

Applies filters for the advertisement of additional paths for BGP neighbors.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv4-neighbor-address-holder>
                                    <af-ipv4-neighbor-address>
                                        <af-ipv4-neighbor-address>10.10.10.1</af-ipv4-neighbor-address>
                                        <additional-paths>
                                            <advertise>
                                                <best>1</best>
                                            </advertise>
                                        </additional-paths>
                                    </af-ipv4-neighbor-address>
                                </af-ipv4-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv4-neighbor-address

Specifies the BGP neighboer address

best

Advertises the additional paths that the device selects as best paths. Specifies the number of best paths advertised. The value can range from 1 through 5

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/capability

Advertises outbound route filter (ORF) capabilities to peer routers.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv4-neighbor-address-holder>
                                    <af-ipv4-neighbor-address>
                                        <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-neighbor-address>
                                        <af-neighbor-capability>
                                            <orf>
                                                <prefixlist>
                                                    <prefixlist-status></prefixlist-status>
                                                    <prefixlist-send></prefixlist-send>
                                                    <prefixlist-receive></prefixlist-receive>
                                                </prefixlist>
                                            </orf>
                                        </af-neighbor-capability>
                                    </af-ipv4-neighbor-address>
                                </af-ipv4-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv4-neighbor-address

Specifies the IPv4 address of the neighbor

prefixlist-send

Enables the ORF prefix list capability in send mode

prefixlist-receive

Enables the ORF prefix list capability in receive mode

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/capability/additional-paths

Enables the advertisement of additional paths for BGP neighbors.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv4-neighbor-address-holder>
                                    <af-ipv4-neighbor-address>
                                        <af-ipv4-neighbor-address>10.10.10.1</af-ipv4-neighbor-address>
                                        <af-neighbor-capability>
                                            <additional-paths>
                                                <add-path-both></add-path-both>
                                                <receive></receive>
                                            </additional-paths>
                                        </af-neighbor-capability>
                                    </af-ipv4-neighbor-address>
                                </af-ipv4-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv4-neighbor-address

Specifies the BGP neighbor address

additional-paths

Enables the advertisement of additional paths for BGP neighbors

receive

Enables BGP to receive additional paths from BGP neighbors.

send

Enables BGP to send additional paths to BGP neighbors

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/default-originate

Configures the device to send the default route 0.0.0.0 to a neighbor.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv4-neighbor-address-holder>
                                    <af-ipv4-neighbor-address>
                                        <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-neighbor-address>
                                        <default-originate>
                                            <default-originate-status></default-originate-status>
                                        </default-originate>
                                    </af-ipv4-neighbor-address>
                                </af-ipv4-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv4-neighbor-address

Specifies the IPv4 address of the neighbor

default-originate-status

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/enable-peer-as-check

Enables the outbound AS_PATH check function so that a BGP sender speaker does not send routes with an AS path that contains the ASN of the receiving speaker.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
 <rbridge-id>2</rbridge-id>
   <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
     <router-bgp-attributes>
      <address-family>
       <ipv4>
        <ipv4-unicast>
          <default-vrf>
           <default-vrf-selected></default-vrf-selected>
             <neighbor>
               <af-ipv4-neighbor-address-holder>
                 <af-ipv4-neighbor-address>
                   <af-ipv4-neighbor-address>10.1.1.1</af-ipv4-neighbor-address>
                    <enable-peer-as-check></enable-peer-as-check>
                  </af-ipv4-neighbor-address>
               </af-ipv4-neighbor-address-holder>
             </neighbor>
         </address-family>
      </router-bgp>
   </router>
</rbridge-id>
```

Parameters

af-ipv4-neighbor-address

Specifies the IPv4 address of the neighbor

History

Release version	History
7.0.1	This Netconf call was introduced.

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/maximum-prefix

Specifies the maximum number of IP network prefixes (routes) that can be learned from a specified neighbor or peer group.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv4-neighbor-address-holder>
                                    <af-ipv4-neighbor-address>
                                        <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-neighbor-address>
                                        <maximum-prefix>
                                            <max-prefix-limit>12</max-prefix-limit>
                                            <threshold-holder>
                                                <threshold>10</threshold>
                                                <teardown></teardown>
                                            </threshold-holder>
                                        </maximum-prefix>
                                    </af-ipv4-neighbor-address>
                                </af-ipv4-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv4-neighbor-address

Specifies the IPv4 address of the neighbor

max-prefix-limit

Specifies the maximum number of IP prefixes that can be learned. The value can range from 0 through 4294967295. The default value is 0 (unlimited)

threshold

Specifies the percentage of the value specified by num that causes a syslog message to be generated. The value can range from 1 through 100. The default value is 100

teardown

Tears down the neighbor session if the maximum number of IP prefixes is exceeded

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/prefix-list

Filters the outgoing and incoming route updates to or from a particular BGP neighbor according to IP address and mask length.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv4-neighbor-address-holder>
                                    <af-ipv4-neighbor-address>
                                        <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-neighbor-address>
                                        <prefix-list>
                                            <direction-in>
                                                <prefix-list-direction-in-prefix-name>prefix1</prefix-
list-direction-in-prefix-name>
                                                <prefix-list-direction-in></prefix-list-direction-in>
                                            </direction-in>
                                        </prefix-list>
                                    </af-ipv4-neighbor-address>
                                </af-ipv4-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv4-neighbor-address

Specifies the IPv4 address of the neighbor

prefix-list-direction-in-prefix-name

Specifies the prefix list name

prefix-list-direction-in

Applies the filter in incoming routes

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/filter-list

Specifies a filter list to be applied to updates from or to the specified neighbor.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv4-neighbor-address-holder>
                                    <af-ipv4-neighbor-address>
                                        <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-neighbor-address>
                                        <filter-list>
                                            <prefix-list>
                                                <direction-in>
                                                    <prefix-list-direction-in-prefix-name>prefix1</
prefix-list-direction-in-prefix-name>
                                                    <prefix-list-direction-in></prefix-list-direction-
in>
                                                </direction-in>
                                            </prefix-list>
                                        </filter-list>
                                    </af-ipv4-neighbor-address>
                                </af-ipv4-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv4-neighbor-address

Specifes the IPv4 address of the neighbor

prefix-list-direction-in-prefix-name

Specifies the name of the filter list

prefix-list-direction-in

Specifies that the list is applied on updates received from the neighbor

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/route-map

Filters the outgoing and incoming route updates to or from a particular BGP neighbor according to a set of attributes defined in a route map.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv4-neighbor-address-holder>
                                    <af-ipv4-neighbor-address>
                                        <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-neighbor-address>
                                        <neighbor-route-map>
                                            <neighbor-route-map-direction-in>
                                                <neighbor-route-map-name-direction-in>route1</neighbor-
route-map-name-direction-in>
                                            </neighbor-route-map-direction-in>
                                        </neighbor-route-map>
                                    </af-ipv4-neighbor-address>
                                </af-ipv4-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv4-neighbor-address

Specifies the IPv4 address of the neighbor

neighbor-route-map-name-direction-in

Specifies the name of the route map

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/route-reflector-client

Configures a neighbor to be a route-reflector client.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv4-neighbor-address-holder>
                                    <af-ipv4-neighbor-address>
                                        <af-ipv4-neighbor-address>10.10.10.1</af-ipv4-neighbor-address>
                                        <route-reflector-client></route-reflector-client>
                                    </af-ipv4-neighbor-address>
                                </af-ipv4-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv4-neighbor-address

Specifies the BGP neighbor address

route-reflector-client

Enables a neighbor to be a route-reflector client

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/send-community

Enables sending the community attribute in updates to the specified BGP neighbor.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv4-neighbor-address-holder>
                                    <af-ipv4-neighbor-address>
                                        <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-neighbor-address>
                                        <send-community>
                                            <send-community-status></send-community-status>
                                            <both></both>
                                            <extended></extended>
                                            <standard></standard>
                                        </send-community>
                                    </af-ipv4-neighbor-address>
                                </af-ipv4-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv4-neighbor-address

Specifies the IPv4 address of the neighbor

send-community-status

Specifies the status

both

Sends both standard and extended attributes

extended

Sends extended attributes

standard

Sends standard attributes

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/unsuppress-map

Removes route suppression from BGP neighbor routes when those routes have been suppressed as a result of aggregation. All routes matching route-map rules are unsuppressed.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv4-neighbor-address-holder>
                                    <af-ipv4-neighbor-address>
                                        <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-neighbor-address>
                                        <unsuppress-map>
                                            <map-name>route1</map-name>
                                        </unsuppress-map>
                                    </af-ipv4-neighbor-address>
                                </af-ipv4-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv4-neighbor-address

Specifies the IPv4 address of the neighbor

map-name

Specifies the route map name

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/weight

Specifies a weight that the device will add to routes that are received from the specified BGP neighbor.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv4-neighbor-address-holder>
                                    <af-ipv4-neighbor-address>
                                        <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-neighbor-address>
                                        <af-nei-weight>10</af-nei-weight>
                                    </af-ipv4-neighbor-address>
                                </af-ipv4-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv4-neighbor-address

Specifies the IPv4 address of the neighbor

af-nei-weight

Specifies the weight. The value can range from 1 through 65535. The default value is 0

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/network

Configures the device to advertise a BGP network.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <network>
                                <network-ipv4-address>5.0.0.0/8</network-ipv4-address>
                                <network-weight>10</network-weight>
                                <backdoor></backdoor>
                                <network-route-map>route1</network-route-map>
                            </network>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

network-weight

Specifies a weight to be added to routes to this network. The value can range from 0 through 65535. The default value is 0.

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/next-hop-enable-default

Configures the device to use the BGP default route as the next hop.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <next-hop-enable-default></next-hop-enable-default>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

next-hop-enable-default

Enables the device to use the BGP default route as the next hop

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/next-hop-recursion

Enables BGP recursive next-hop lookups.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <next-hop-recursion></next-hop-recursion>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

next-hop-recursion

Enables BGP recursive next-hop lookups

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/redistribute/bgp/metric

Configures the device to redistribute IPv4 BGP routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                                <redistribute>
                                    <bgp>
                                        <bgp-metric>3</bgp-metric>
                                    </bgp>
                                </redistribute>
                            </af-ipv4-uc-and-vrf-cmds-call-point-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

bgp-metric

Specifies a metric for redistributed routes. The value can range from 0 through 65535. No value is assigned by default

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/redistribute/bgp/route-map

Configures the device to redistribute IPv4 BGP routes and specifies that route-map.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                                <redistribute>
                                    <bgp>
                                        <bgp-route-map>route1</bgp-route-map>
                                    </bgp>
                                </redistribute>
                            </af-ipv4-uc-and-vrf-cmds-call-point-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

bgp-route-map

Specifies a route map to be consulted before a route is added to the routing table

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/redistribute/connected/metric

Configures the device to redistribute IPv4 BGP directly connected routes into BGP4+

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                                <redistribute>
                                    <connected>
                                        <redistribute-connected></redistribute-connected>
                                        <unicast-metric>20</unicast-metric>
                                    </connected>
                                </redistribute>
                            </af-ipv4-uc-and-vrf-cmds-call-point-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

unicast-metric

Specifies a metric for redistributed routes. The value can range from 0 through 65535. No value is assigned by default

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/redistribute/connected/route-map

Configures the device to redistribute IPv4 BGP4 routes and specifies that route-map

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                                <redistribute>
                                    <connected>
                                        <redistribute-connected></redistribute-connected>
                                        <redistribute-route-map>route1</redistribute-route-map>
                                    </connected>
                                </redistribute>
                            </af-ipv4-uc-and-vrf-cmds-call-point-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

redistribute-route-map

Specifies a route map to be consulted before a route is added to the routing table

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/redistribute/ospf/match

Configures the device to redistribute IPv4 OSPF external type.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                                <redistribute>
                                    <ospf>
                                        <redistribute-ospf></redistribute-ospf>
                                        <match>
                                            <ospf-internal></ospf-internal>
                                        </match>
                                    </ospf>
                                </redistribute>
                            </af-ipv4-uc-and-vrf-cmds-call-point-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

match

Specifies the type of route

external1

Specifies OSPF Type 1 external routes

external2

Specifies OSPF Type 2 external routes

internal

Specifies OSPF internal routes

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/redistribute/ospf/metric

Configures the device to redistribute IPv4 OSPF routes

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                                <redistribute>
                                    <ospf>
                                        <redistribute-ospf></redistribute-ospf>
                                        <ospf-metric>20</ospf-metric>
                                    </ospf>
                                </redistribute>
                            </af-ipv4-uc-and-vrf-cmds-call-point-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ospf-metric

Specifies a metric for redistributed routes. The value can range from 0 through 65535. No value is assigned by default

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/redistribute/ospf/route-map

Configures the device to redistribute IPv4 OSPF routes and specifies the route-map.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                                <redistribute>
                                    <ospf>
                                        <redistribute-ospf></redistribute-ospf>
                                        <ospf-route-map>route1</ospf-route-map>
                                    </ospf>
                                </redistribute>
                            </af-ipv4-uc-and-vrf-cmds-call-point-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ospf-route-map

Specifies a route map to be consulted before a route is added to the routing table

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/redistribute/static/metric

Configures the device to redistribute IPv4 static routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                                <redistribute>
                                    <static>
                                        <redistribute-static></redistribute-static>
                                        <unicast-static-metric>1000</unicast-static-metric>
                                    </static>
                                </redistribute>
                            </af-ipv4-uc-and-vrf-cmds-call-point-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

unicast-static-metric

Specifies a metric for redistributed routes. The value can range from 0 through 65535. No value is assigned by default

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/redistribute/static/route-map

Configures the device to redistribute IPv4 static routes and specifies the route-map

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                                <redistribute>
                                    <static>
                                        <redistribute-static></redistribute-static>
                                        <static-route-map>route1</static-route-map>
                                    </static>
                                </redistribute>
                            </af-ipv4-uc-and-vrf-cmds-call-point-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

static-route-map

Specifies a route map to be consulted before a route is added to the routing table

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/rib-route-map

Limits the maximum number of BGP Routing Information Base (RIB) routes that can be installed in the Routing Table Manager (RTM).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <rib-route-limit>20</rib-route-limit>
                            </af-common-cmds-holder>
                            <next-hop-recursion></next-hop-recursion>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

rib-route-limit

Specifies the ecimal value for the maximum number of RIB routes to be installed in the RTM. The value cane range from 1 through 65535

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/static-network

Configures a static BGP4 network, creating a stable network in the core.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <static-network>
                                <static-network-address>100.1.0.0/16</static-network-address>
                                <static-network-distance>10</static-network-distance>
                            </static-network>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

static-network-address

Specifies the network and mask in CIDR notation

static-network-distance

Specifies an administrative distance value for this network. The value can range from 1 through 255. The default value is 200

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/table-map

Maps external entry attributes into the BGP routing table, ensuring that those attributes are preserved after being redistributed into OSPF.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <table-map>
                                    <table-map-route-map>route1</table-map-route-map>
                                </table-map>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

table-map-route-map

Specifies a route map to be whose attributes are to be preserved. The value can range from 1 through 63 ASCII characters

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/update-time

Configures the interval at which BGP next-hop tables are modified. BGP next-hop tables should always have IGP (non-BGP) routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv4>
                    <ipv4-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <update-time>10</update-time>
                            </af-common-cmds-holder>
                            <next-hop-recursion></next-hop-recursion>
                        </default-vrf>
                    </ipv4-unicast>
                </ipv4>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

update-time

Specifies the update time in seconds. The value can range from 0 through 30. The default update time is 5 seconds

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/aggregate-address

Configures the device to aggregate routes from a range of networks into a single network prefix.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <aggregate-ipv6-address>
                                <aggregate-ip-prefix>2001:db8:12d:1300::/64</aggregate-ip-prefix>
                                <as-set></as-set>
                            </aggregate-ipv6-address>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

aggregate-ip-prefix

Specifies the IPv6 address

as-set

Causes the device to aggregate AS-path information for all routes in the aggregate routes from a range of networks into a single network prefix

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/always-propagate

Enables the device to reflect BGP routes even though they are not installed in the Routing Table Manager (RTM).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <always-propagate></always-propagate>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

always-propagate

Enables the device to reflect BGP routes

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/bgp-redistribute-internal

Causes the device to allow the redistribution of IBGP routes from BGP into OSPF for non-default VRF instances.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-ipv6-uc-and-vrf-cmds-call-point-holder>
                                <bgp-redistribute-internal></bgp-redistribute-internal>
                            </af-ipv6-uc-and-vrf-cmds-call-point-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

bgp-redistribute-internal

Allows the redistribution of IBGP routes from BGP into OSPF

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/client-to-client-reflection

Enables routes from one client to be reflected to other clients by the host device on which it is configured.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <client-to-client-reflection></client-to-client-reflection>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

client-to-client-reflection

Enables routes from one client to be reflected to other clients

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/dampening

Sets dampening parameters for the route in BGP address-family mode.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <dampening>
                                    <values>
                                        <half-time>25</half-time>
                                        <reuse-value>755</reuse-value>
                                        <start-suppress-time>2005</start-suppress-time>
                                        <max-suppress-time>45</max-suppress-time>
                                    </values>
                                </dampening>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

half-time

Specifies the number of minutes after which the route penalty becomes half its value. The value can range from 1 through 45. The default time is 15

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

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/default-information-originate

Configures the device to originate and advertise a default BGP4 or BGP4+ route.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <default-information-originate></default-information-originate>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

default-information-originate

Enables the device to originate and advertise a default BGP4 or BGP4+ route

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/default-metric

Changes the default metric used for redistribution.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <default-metric>2</default-metric>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

default-metric

Specifies the metric value. The value can range from 0 through 4294967295. The default value is 1

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/graceful-restart

Enables the BGP graceful restart capability.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <graceful-restart></graceful-restart>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

graceful-restart

Enables the BGP graceful restart capability

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/graceful-restart/purge-time

Configures the maximum time before restarting router clean up stale.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <graceful-restart>
                                    <purge-time>200</purge-time>
                                </graceful-restart>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

purge-time

Specifies the maximum time before restarting router clean up stale. The value can range from 1 through 3600 seconds. The default value is 600 seconds

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/graceful-restart/restart-time

Configures the maximum restart wait time advertised to neighbors.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <graceful-restart>
                                    <restart-time>250</restart-time>
                                </graceful-restart>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

restart-time

Specifies the maximum restart wait time advertised to neighbors. The value can range from 1 through 3600 seconds. The default value is 120 seconds

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/graceful-restart/stale-routes-time

Configures the maximum time before helper router clean up stale routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <graceful-restart>
                                    <stale-routes-time>400</stale-routes-time>
                                </graceful-restart>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

stale-routes-time

Specifies the maximum time before helper router clean up stale routes. The value can range from 1 through 3600 seconds. The default value is 360 seconds

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/maximum-paths

Sets the maximum number of BGP4 and BGP4+ shared paths.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <maximum-paths>
                                    <load-sharing-value>25</load-sharing-value>
                                </maximum-paths>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

load-sharing-value

Specifies the maximum number of paths across which the device balances traffic to a given BGP4 destination. The value can range from 1 through 32 for the Extreme VDX 8770 and Extreme VDX 6940; the value can range from 1 through 16 for the Extreme VDX 6740. The default value is 1 for all platforms

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/maximum-paths/ebgp

Configures the number of EBGP paths for load sharing.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <maximum-paths>
                                    <ebgp>27</ebgp>
                                </maximum-paths>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ebgp

Specifies the the number of EBGP paths for load sharing. The value can range from 1 through 32. The default value is all

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/maximum-paths/ibgp

Configures the number of IBGP paths for load sharing.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <maximum-paths>
                                    <ibgp>29</ibgp>
                                </maximum-paths>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ibgp

Specifies the number of IBGP paths for load sharing. The value can range from 1 through 32. The default value is all

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/maximum-paths/use-load-sharing

Configures the number of load sharing paths.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <maximum-paths>
                                    <use-load-sharing></use-load-sharing>
                                </maximum-paths>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

use-load-sharing

Uses the maximum IP ECMP path value

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/multipath/ebgp

Changes load sharing to apply to only EBGP paths.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <multipath>
                                    <ebgp></ebgp>
                                </multipath>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ebgp

Enables load sharing of EBGP paths only

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/multipath/ibgp

Changes load sharing to apply to only IBGP.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <multipath>
                                    <ibgp></ibgp>
                                </multipath>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ibgp

Enables load sharing of IBGP paths only

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/multipath/multi-as

Changes load sharing to apply to support load sharing among paths from different neighboring autonomous systems.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <multipath>
                                    <multi-as></multi-as>
                                </multipath>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

multi-as

Enables load sharing of paths from different neighboring autonomous systems.

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/activate

Enables the exchange of information with BGP neighbors and peer groups.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv6-neighbor-address-holder>
                                    <af-ipv6-neighbor-address>
                                        <af-ipv6-neighbor-address>2004:384d::23:24</af-ipv6-neighbor-
address>
                                        <activate></activate>
                                    </af-ipv6-neighbor-address>
                                </af-ipv6-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv6-neighbor-address

Specifies the IPv6 address of the neighbor

activate

Enables the exchange of information with BGP neighbors and peer groups

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/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.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv6-neighbor-address-holder>
                                    <af-ipv6-neighbor-address>
                                        <af-ipv6-neighbor-address>2004:384d::23:24</af-ipv6-neighbor-
address>
                                        <allowas-in>9</allowas-in>
                                    </af-ipv6-neighbor-address>
                                </af-ipv6-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv6-neighbor-address

Specifies the IPv6 address of the neighbor

allowas-in

Specifies the number of times that the AS path of a received route may contain the recipient BGP speaker's AS number and still be accepted. The values can range from 1 through 10

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/capability

Advertises outbound route filter (ORF) capabilities to peer routers.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv6-neighbor-address-holder>
                                    <af-ipv6-neighbor-address>
                                        <af-ipv6-neighbor-address>2004:384d::23:24</af-ipv6-neighbor-
address>
                                        <af-neighbor-capability>
                                            <orf>
                                                <prefixlist>
                                                    <prefixlist-status></prefixlist-status>
                                                    <prefixlist-send></prefixlist-send>
                                                    <prefixlist-receive></prefixlist-receive>
                                                </prefixlist>
                                            </orf>
                                        </af-neighbor-capability>
                                    </af-ipv6-neighbor-address>
                                </af-ipv6-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv6-neighbor-address

Specifies the IPv6 address of the neighbor

prefixlist-send

Enables the ORF prefix list capability in send mode

prefixlist-receive

Enables the ORF prefix list capability in receive mode

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/default-originate

Configures the device to send the default route 0.0.0.0 to a neighbor.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <neighbor>
                                <af-ipv6-neighbor-address-holder>
                                    <af-ipv6-neighbor-address>
                                        <af-ipv6-neighbor-address>2004:384d::23:24</af-ipv6-neighbor-
address>
                                        <default-originate>
                                            <default-originate-status></default-originate-status>
                                            <default-originate-route-map>route1</default-originate-
route-map>
                                        </default-originate>
                                    </af-ipv6-neighbor-address>
                                </af-ipv6-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv6-neighbor-address

Specifies the IPv6 address of the neighbor

default-originate-route-map

Optionally injects the default route conditionally, depending on the match conditions in the route map

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/maximum-prefix

Specifies the maximum number of IP network prefixes (routes) that can be learned from a specified neighbor or peer group.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <neighbor>
                                <af-ipv6-neighbor-address-holder>
                                    <af-ipv6-neighbor-address>
                                        <af-ipv6-neighbor-address>2004:384d::23:24</af-ipv6-neighbor-
address>
                                        <maximum-prefix>
                                            <max-prefix-limit>10</max-prefix-limit>
                                            <threshold-holder>
                                                <threshold>20</threshold>
                                                <teardown></teardown>
                                            </threshold-holder>
                                        </maximum-prefix>
                                    </af-ipv6-neighbor-address>
                                </af-ipv6-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv6-neighbor-address

Specifies the IPv6 address of the neighbor

max-prefix-limit

Specifies the maximum number of IP prefixes that can be learned. The value can range from 0 through 4294967295. The default value is 0 (unlimited)

threshold

Specifies the percentage of the value specified by num that causes a syslog message to be generated. The value can range from 1 through 100. The default value is 100

teardown

Tears down the neighbor session if the maximum number of IP prefixes is exceeded

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/prefix-list

Filters the outgoing and incoming route updates to or from a particular BGP neighbor according to IP address and mask length.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <neighbor>
                                <af-ipv6-neighbor-address-holder>
                                    <af-ipv6-neighbor-address>
                                        <af-ipv6-neighbor-address>2004:384d::23:24</af-ipv6-neighbor-
address>
                                        <prefix-list>
                                            <direction-in>
                                                <prefix-list-direction-in-prefix-name>prefix1</prefix-
list-direction-in-prefix-name>
                                                <prefix-list-direction-in></prefix-list-direction-in>
                                            </direction-in>
                                        </prefix-list>
                                    </af-ipv6-neighbor-address>
                                </af-ipv6-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv6-neighbor-address

Specifies the IPv6 address of the neighbor

prefix-list-direction-in-prefix-name

Specifies the name of the prefix list

prefix-list-direction-in

Specifies the direction

in

Applies the filter in incoming routes

out

Applies the filter in outgoing routes

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/filter-list

Specifies a filter list to be applied to updates from or to the specified neighbor.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv6-neighbor-address-holder>
                                    <af-ipv6-neighbor-address>
                                        <af-ipv6-neighbor-address>2004:384d::23:24</af-ipv6-neighbor-
address>
                                        <filter-list>
                                            <prefix-list>
                                                <direction-in>
                                                    <prefix-list-direction-in-prefix-name>prefix1</
prefix-list-direction-in-prefix-name>
                                                    <prefix-list-direction-in></prefix-list-direction-
in>
                                                </direction-in>
                                            </prefix-list>
                                        </filter-list>
                                    </af-ipv6-neighbor-address>
                                </af-ipv6-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv6-neighbor-address

Specifies the IPv6 address of the neighbor

prefix-list-direction-in-prefix-name

Specifies the name of the filter list

prefix-list-direction-in

Specifies that the list is applied on updates received from the neighbor

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/route-map

Filters the outgoing and incoming route updates to or from a particular BGP neighbor according to a set of attributes defined in a route map.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <neighbor>
                                <af-ipv6-neighbor-address-holder>
                                    <af-ipv6-neighbor-address>
                                        <neighbor-route-map>
                                            <neighbor-route-map-direction-in>
                                                <neighbor-route-map-name-direction-in>route1</neighbor-
route-map-name-direction-in>
                                            </neighbor-route-map-direction-in>
                                        </neighbor-route-map>
                                    </af-ipv6-neighbor-address>
                                </af-ipv6-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

neighbor-route-map-name-direction-in

Specifies the name of the route map

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/route-reflector-client

Configures a neighbor to be a route-reflector client.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv6-neighbor-address-holder>
                                    <af-ipv6-neighbor-address>
                                        <af-ipv6-neighbor-address>2004:384d::23:24</af-ipv6-neighbor-
address>
                                        <route-reflector-client></route-reflector-client>
                                    </af-ipv6-neighbor-address>
                                </af-ipv6-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv6-neighbor-address

Specifies the IPv6 address of the neighbor

route-reflector-client

Enables a neighbor to be a route-reflector client

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/send-community

Enables sending the community attribute in updates to the specified BGP neighbor.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <neighbor>
                                <af-ipv6-neighbor-address-holder>
                                    <af-ipv6-neighbor-address>
                                        <af-ipv6-neighbor-address>2004:384d::23:24</af-ipv6-neighbor-
address>
                                        <send-community>
                                            <send-community-status></send-community-status>
                                            <both></both>
                                        </send-community>
                                    </af-ipv6-neighbor-address>
                                </af-ipv6-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv6-neighbor-address

Specifies the IPv6 address of the neighbor

send-community-status

Specifies sending community status

both

Sends both standard and extended attributes

extended

Sends extended attributes

standard

Sends standard attributes

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/timers

Specifies how frequently a device sends KEEPALIVE messages to its BGP neighbors, as well as how long the device waits for KEEPALIVE or UPDATE messages before concluding that a neighbor is dead.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv6-neighbor-address-holder>
                                    <af-ipv6-neighbor-address>
                                        <af-ipv6-neighbor-address>2004:384d::23:24</af-ipv6-neighbor-
address>
                                        <timers>
                                            <nei-keep-alive>65</nei-keep-alive>
                                            <nei-hold-time>185</nei-hold-time>
                                        </timers>
                                    </af-ipv6-neighbor-address>
                                </af-ipv6-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv6-neighbor-address

Specifies the IPv6 address of the neighbor

nei-keep-alive

Specifies the frequency 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

nei-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 interval is 180 seconds

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/unsuppress-map

Removes route suppression from BGP neighbor routes when those routes have been suppressed as a result of aggregation. All routes matching route-map rules are unsuppressed.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <neighbor>
                                <af-ipv6-neighbor-address-holder>
                                    <af-ipv6-neighbor-address>
                                        <af-ipv6-neighbor-address>2004:384d::23:24</af-ipv6-neighbor-
address>
                                        <unsuppress-map>
                                            <af-ipv6-neighbor-address>route1</map-name>
                                        </unsuppress-map>
                                    </af-ipv6-neighbor-address>
                                </af-ipv6-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv6-neighbor-address

Specifies the IPv6 address of the neighbor

unsuppress-map *af-ipv6-neighbor-address*

Specifies the name of the route map

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/update-source

Configures the BGP device to communicate with a neighbor through a specified interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <neighbor>
                                <af-ipv6-neighbor-address-holder>
                                    <af-ipv6-neighbor-address>
                                        <af-ipv6-neighbor-address>2004:384d::23:24</af-ipv6-neighbor-
address>
                                        <update-source>
                                            <ethernet-interface>
                                                <interface-type>fortygigabitethernet</interface-type>
                                                <ethernet>1/0/50</ethernet>
                                            </ethernet-interface>
                                        </update-source>
                                    </af-ipv6-neighbor-address>
                                </af-ipv6-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv6-neighbor-address

Specifies the IPv6 address of the neighbor

interface-type

Specifies the interface type

ethernet

Specifies the interface name

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/weight

Specifies a weight that the device will add to routes that are received from the specified BGP neighbor.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <neighbor>
                                <af-ipv6-neighbor-address-holder>
                                    <af-ipv6-neighbor-address>
                                        <af-ipv6-neighbor-address>2004:384d::23:24</af-ipv6-neighbor-
address>
                                        <af-nei-weight>10</af-nei-weight>
                                    </af-ipv6-neighbor-address>
                                </af-ipv6-neighbor-address-holder>
                            </neighbor>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

af-ipv6-neighbor-address

Specifies the IPv6 address of the neighbor

af-nei-weight

Specifies the weight. The value can range from 1 through 65535

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/network

Configures the device to advertise a BGP network.

Usage

```
rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <network>
                                <network-ipv6-address>2001:db8:12d:1300::/64</network-ipv6-address>
                                <network-weight>10</network-weight>
                                <backdoor></backdoor>
                                <network-route-map>route1</network-route-map>
                            </network>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

network-ipv6-address

Specifies the Network and mask in CIDR notation

network-weight

Specifies a weight to be added to routes to this network. The value can range from 0 through 65535. The default value is 0

backdoor

Changes administrative distance of the route to this network from the EBGP administrative distance (the default is 20) to the local BGP4 weight (the default is 200), tagging the route as a backdoor route

network-route-map

Specifies a route map with which to set or change BGP4 attributes for the network to be advertised

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/next-hop-enable-default

Configures the device to use the BGP default route as the next hop.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <next-hop-enable-default></next-hop-enable-default>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

next-hop-enable-default

Enables the device to use the BGP default route as the next hop

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/next-hop-recursion

Enables BGP recursive next-hop lookups.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <ipv6-ucast-next-hop-recursion></ipv6-ucast-next-hop-recursion>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ipv6-ucast-next-hop-recursion

Enables BGP recursive next-hop lookups

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/redistribute/bgp/metric

Redistributes BGP4 routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-ipv6-uc-and-vrf-cmds-call-point-holder>
                                <redistribute>
                                    <bgp>
                                        <bgp-metric>40</bgp-metric>
                                    </bgp>
                                </redistribute>
                            </af-ipv6-uc-and-vrf-cmds-call-point-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

bgp-metric

Specifies a metric for redistributed routes. The value can range from 0 through 65535

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/redistribute/bgp/route-map

Configures the device to redistribute IPv6 routes from one routing domain to another.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-ipv6-uc-and-vrf-cmds-call-point-holder>
                                <redistribute>
                                    <bgp>
                                        <bgp-route-map>route1</bgp-route-map>
                                    </bgp>
                                </redistribute>
                            </af-ipv6-uc-and-vrf-cmds-call-point-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

bgp-route-map

Specifies a route map to be consulted before a route is added to the routing table

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/redistribute/connected/metric

Redistributes directly connected routes into BGP4+.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-ipv6-uc-and-vrf-cmds-call-point-holder>
                                <redistribute>
                                    <connected>
                                        <redistribute-connected></redistribute-connected>
                                        <unicast-metric>50</unicast-metric>
                                    </connected>
                                </redistribute>
                            </af-ipv6-uc-and-vrf-cmds-call-point-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

unicast-metric

Specifies a metric for redistributed routes. The value can range from 0 through 65535

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/redistribute/connected/route-map

Configures the device to redistribute directly connected IPv6 routes from one routing domain to another.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-ipv6-uc-and-vrf-cmds-call-point-holder>
                                <redistribute>
                                    <connected>
                                        <redistribute-connected></redistribute-connected>
                                        <redistribute-route-map>route1</redistribute-route-map>
                                    </connected>
                                </redistribute>
                            </af-ipv6-uc-and-vrf-cmds-call-point-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

redistribute-route-map

Specifies a route map to be consulted before a route is added to the routing table

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/redistribute/ospf/match

Redistributes OSPF routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-ipv6-uc-and-vrf-cmds-call-point-holder>
                                <redistribute>
                                    <ospf>
                                        <redistribute-ospf></redistribute-ospf>
                                        <match>
                                            <ospf-internal></ospf-internal>
                                        </match>
                                    </ospf>
                                </redistribute>
                            </af-ipv6-uc-and-vrf-cmds-call-point-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

match

Specifies the type of route

external1

Specifies OSPF Type 1 external routes

external2

Specifies OSPF Type 2 external routes

internal

Specifies OSPF internal routes

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/redistribute/ospf/metric

Redistributes OSPF metric routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-ipv6-uc-and-vrf-cmds-call-point-holder>
                                <redistribute>
                                    <ospf>
                                        <redistribute-ospf></redistribute-ospf>
                                        <ospf-metric>50</ospf-metric>
                                    </ospf>
                                </redistribute>
                            </af-ipv6-uc-and-vrf-cmds-call-point-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ospf-metric

Specifies a metric for redistributed routes. The value can range from 0 through 65535

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/redistribute/ospf/route-map

Configures the device to redistribute IPv6 OSPF routes from one routing domain to another.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-ipv6-uc-and-vrf-cmds-call-point-holder>
                                <redistribute>
                                    <ospf>
                                        <redistribute-ospf></redistribute-ospf>
                                        <ospf-route-map>route1</ospf-route-map>
                                    </ospf>
                                </redistribute>
                            </af-ipv6-uc-and-vrf-cmds-call-point-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ospf-route-map

Specifies a route map to be consulted before a route is added to the routing table

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/rib-route-limit

Limits the maximum number of BGP Routing Information Base (RIB) routes that can be installed in the Routing Table Manager (RTM).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <rib-route-limit>100</rib-route-limit>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

rib-route-limit

Specifies the maximum number of RIB routes to be installed in the RTM. The value can range from 1 through 65535

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/table-map

Maps external entry attributes into the BGP routing table, ensuring that those attributes are preserved after being redistributed into OSPF.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <table-map>
                                    <table-map-route-map>route1</table-map-route-map>
                                </table-map>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

table-map-route-map

Specifies a route map to be whose attributes are to be preserved. The value can range from 1 through 63 ASCII characters

rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/update-time

Configures the interval at which BGP next-hop tables are modified. BGP next-hop tables should always have IGP (non-BGP) routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <ipv6>
                    <ipv6-unicast>
                        <default-vrf>
                            <default-vrf-selected></default-vrf-selected>
                            <af-common-cmds-holder>
                                <update-time>15</update-time>
                            </af-common-cmds-holder>
                        </default-vrf>
                    </ipv6-unicast>
                </ipv6>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

update-time

Specifies the update time in seconds. The value can range from 0 through 30. The default value is 5 seconds

rbridge-id/{rbridge-number}/vrf/address-family/ipv6/unicast/vrf/listen-range/peer-group/limit

Limits the listen range for a address family peer group.

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
            <rbridge-id>9</rbridge-id>
            <router>
               <router-bgp xmlns=""urn:brocade.com:mgmt:brocade-bgp"">
              </router-bgp>
               <address-family>
                  <ipv4>
                     <ipv4-unicast>
                        <af-vrf>
                           <af-vrf-name>v1</af-vrf-name>
                           <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>
                        </af-vrf>
                     </ipv4-unicast>
                  </ipv4>
               </address-family>
            </router>
         </rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID.

af-vrf-name

Specfies the address family VRF name.

listen-range-prefix

Specifies the listen range prefix.

peer-group

Specifies the peer group name.

limit

Specifies the limit.

History

Release version	History
7.1.0	This NETCONF call was introduced.

rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn

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

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <l2vpn>
                    <evpn></evpn>
                </l2vpn>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

evpn

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

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/graceful-restart

Enables the BGP graceful restart capability.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <l2vpn>
                    <evpn>
                        <graceful-restart>
                            <graceful-restart-status></graceful-restart-status>
                        </graceful-restart>
                    </evpn>
                </l2vpn>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

graceful-restart-status

Enables the BGP graceful restart capability

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/graceful-restart/purge-time

Configures the maximum period of time for which a restarting device maintains stale routes in the BGP routing table before purging them.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <l2vpn>
                    <evpn>
                        <graceful-restart>
                            <purge-time>300</purge-time>
                        </graceful-restart>
                    </evpn>
                </l2vpn>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/graceful-restart/restart-time

Configures the restart-time advertised to graceful restart-capable neighbors.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <l2vpn>
                    <evpn>
                        <graceful-restart>
                            <restart-time>400</restart-time>
                        </graceful-restart>
                    </evpn>
                </l2vpn>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/graceful-restart/stale-routes-time

Configures the maximum period of time that a helper device will wait for an EOR message from a peer.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <l2vpn>
                    <evpn>
                        <graceful-restart>
                            <stale-routes-time>450</stale-routes-time>
                        </graceful-restart>
                    </evpn>
                </l2vpn>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

stale-routes-time

Specifies the maximum period of time, in seconds, that a helper device will wait for an 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

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/neighbor/next-hop-unchanged

Enables BGP to send updates to eBGP peers with the next-hop attribute unchanged.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <l2vpn>
                    <evpn>
                        <neighbor>
                            <evpn-neighbor-ipv4>
                                <evpn-neighbor-ipv4-address>1.1.1.1</evpn-neighbor-ipv4-address>
                                <next-hop-unchanged></next-hop-unchanged>
                            </evpn-neighbor-ipv4>
                        </neighbor>
                    </evpn>
                </l2vpn>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

evpn-neighbor-ipv4-address

Specifies the IPv4 neighbor address

next-hop-unchanged

Enables BGP to send updates to eBGP multihop peers with the next-hop attribute unchanged

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/retain/route-target

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

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <l2vpn>
                    <evpn>
                        <retain>
                            <route-target>
                                <all></all>
                            </route-target>
                        </retain>
                    </evpn>
                </l2vpn>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

all

Sets a route reflector (RR) to accept all route targets (RTs)

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/vtep-discovery

Enables automatic VXLAN tunnel endpoint (VTEP) discovery by BGP.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <address-family>
                <l2vpn>
                    <evpn>
                        <vtep-discovery></vtep-discovery>
                    </evpn>
                </l2vpn>
            </address-family>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vtep-discovery

Enables automatic VXLAN tunnel endpoint (VTEP) discovery by BGP

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/router/bgp/always-compare-med

Configures the device always to compare the Multi-Exit Discriminators (MEDs), regardless of the autonomous system (AS) information in the paths.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <always-compare-med></always-compare-med>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

always-compare-med

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

rbridge-id/{rbridge-number}/router/bgp/as-path-ignore

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

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <as-path-ignore></as-path-ignore>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

as-path-ignore

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

rbridge-id/{rbridge-number}/router/bgp/auto-shutdown-new-neighbors

Auto shuts down new neighbors.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <auto-shutdown-new-neighbors></auto-shutdown-new-neighbors>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

auto-shutdown-new-neighbors

Auto shuts down new neighbors

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/router/bgp/bfd/holdover-interval

Sets the time interval for which OSPF or BGP routes are withdrawn after a BFD session is declared down.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <bfd>
                    <holdover-interval>20</holdover-interval>
                </bfd>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

holdover-interval

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

rbridge-id/{rbridge-number}/router/bgp/bfd/interval

Configures Bidirectional Forwarding Detection (BFD) session parameters on an interface or on a VXLAN overlay gateway site.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <bfd>
                    <interval>
                        <min-tx>550</min-tx>
                        <min-rx>250</min-rx>
                        <multiplier>4</multiplier>
                    </interval>
                </bfd>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

rbridge-id/{rbridge-number}/router/bgp/capability/as4-enable

Enables 4-byte autonomous system number (ASN) capability at the BGP global level.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <capability>
                    <as4-enable></as4-enable>
                </capability>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

as4-enable

Enables 4-byte autonomous system number (ASN) capability

rbridge-id/{rbridge-number}/router/bgp/cluster-id

Configures a cluster ID for the route reflector.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <cluster-id>
                    <cluster-id-value>500</cluster-id-value>
                </cluster-id>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

cluster-id-value

Specifies the integer value for cluster ID. The value can range from 1 through 65535

rbridge-id/{rbridge-number}/router/bgp/cluster-id/ipv4-address

Configures a IPv4 cluster ID.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <cluster-id>
                    <cluster-id-ipv4-address>1.1.1.1</cluster-id-ipv4-address>
                </cluster-id>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

cluster-id-ipv4-address

Specifies the IPv4 address in dotted-decimal notation

rbridge-id/{rbridge-number}/router/bgp/compare-med-empty-aspath

Enables comparison of Multi-Exit Discriminators (MEDs) for internal routes that originate within the local autonomous system (AS) or confederation.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <compare-med-empty-aspath></compare-med-empty-aspath>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

compare-med-empty-aspath

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

rbridge-id/{rbridge-number}/router/bgp/compare-routerid

Enables comparison of device IDs, so that the path-comparison algorithm compares the device IDs of neighbors that sent otherwise equal-length paths.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <compare-routerid></compare-routerid>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

compare-routerid

Enables comparison of device IDs

rbridge-id/{rbridge-number}/router/bgp/confederation/identifier

Configures a BGP confederation identifier.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <confederation>
                    <identifier>40</identifier>
                </confederation>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

identifier

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

rbridge-id/{rbridge-number}/router/bgp/confederation/peers

Configures subautonomous systems to belong to a single confederation.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <confederation>
                    <peers>45</peers>
                </confederation>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

peers

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

rbridge-id/{rbridge-number}/router/bgp/default-local-preference

Enables setting of a local preference value to indicate a degree of preference for a route relative to that of other routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <default-local-preference>110</default-local-preference>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

default-local-preference

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

rbridge-id/{rbridge-number}/router/bgp/distance

Changes the default administrative distances for EBGP, IBGP, and local BGP.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <distance>
                    <ext-route-distance>20</ext-route-distance>
                    <int-route-distance>25</int-route-distance>
                    <lcl-route-distance>30</lcl-route-distance>
                </distance>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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

rbridge-id/{rbridge-number}/router/bgp/enforce-first-as

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

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <enforce-first-as></enforce-first-as>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

enforce-first-as

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

rbridge-id/{rbridge-number}/router/bgp/fast-external-fallover

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

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <fast-external-fallover></fast-external-fallover>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

fast-external-fallover

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

rbridge-id/{rbridge-number}/router/bgp/install-igp-cost

Configures the device to use the IGP cost instead of the default BGP4or BGP4+ Multi-Exit Discriminator (MED) value as the route cost when the route is added to the Routing Table Manager (RTM).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <install-igp-cost></install-igp-cost>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

install-igp-cost

Enables the device to use the IGP cost instead of the default BGP4or BGP4+ Multi-Exit Discriminator (MED) value

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

Limits the listen range for a peer group.

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
            <rbridge-id>9</rbridge-id>
            <router>
               <router-bgp xmlns=""urn:brocade.com:mgmt:brocade-bgp"">
                  <router-bgp-attributes>
                     <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>
                  </router-bgp-attributes>
               </router-bgp>
            </router>
         </rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID.

listen-range-prefix

Specifies the listen range prefix.

peer-group

Specifies the peer group name.

limit

Specifies the limit.

History

Release version	History
7.1.0	This NETCONF call was introduced.

rbridge-id/{rbridge-number}/router/bgp/local-as

Specifies the BGP autonomous system number (ASN) where the device resides.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <local-as>200</local-as>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

local-as

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

rbridge-id/{rbridge-number}/router/bgp/log-dampening-debug

Logs dampening debug messages.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <log-dampening-debug></log-dampening-debug>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

log-dampening-debug

Logs dampening debug messages

rbridge-id/{rbridge-number}/router/bgp/med-missing-as-worst

Configures the device to favor a route that has a Multi-Exit Discriminator (MED) over a route that does not have one.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <med-missing-as-worst></med-missing-as-worst>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

med-missing-as-worst

Enables the device to favor a route that has a Multi-Exit Discriminator (MED) over a route that does not have one

rbridge-id/{rbridge-number}/router/bgp/neighbor/alternate-as/add

Adds an alternate autonomous system (AS) to the alternate AS range.

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
            <rbridge-id>9</rbridge-id>
            <router>
               <router-bgp xmlns=""urn:brocade.com:mgmt:brocade-bgp"">
                  <router-bgp-attributes>
                     <neighbor>
                        <peer-grps>
                           <neighbor-peer-grp>
                              <router-bgp-neighbor-peer-grp>ebgp_scl_61</router-bgp-neighbor-peer-grp>
                              <alternate-as>
                                 <add>777</add>
                              </alternate-as>
                           </neighbor-peer-grp>
                        </peer-grps>
                     </neighbor>
                  </router-bgp-attributes>
               </router-bgp>
            </router>
         </rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID.

neighbor

Specifies the neighbor router.

neighbor-peer-grp

Specifies the neighbor group name.

alternate-as

Specifies the alternate AS.

History

Release version	History
7.1.0	This NETCONF call was introduced.

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}

Assigns a BGP neighbor to a specified IPv4 address to provide a variety of configuration options.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-bgp-neighbor-address

Specifies the router bgp neighbor address

ip-address

Specifies the IPv4 address of the neighbor

ipv6-address

Specifies the IPv6 address of the neighbor

peer-group-name

Specifies the peer group name configured by the **neighbor peer-group-name** command

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/advertisement-interval

Enables changes to the interval over which a specified neighbor or peer group holds route updates before forwarding them.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <advertisement-interval>
                                <value>10</value>
                            </advertisement-interval>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-bgp-neighbor-address

Specifies the router bgp neighbor address

ip-address

Specifies the IPv4 address of the neighbor

ipv6-address

Specifies the IPv6 address of the neighbor

peer-group-name

Specifies the peer group name configured by the **neighbor peer-group-name** command

value

Specifies the interval. The value can range from 0 through 3600 seconds. The default value is 0 second

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/as-override

Replaces the autonomous system number (ASN) of the originating device with the ASN of the sending BGP device.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <as-override></as-override>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-bgp-neighbor-address

Specifies the router bgp neighbor address

ip-address

Specifies the IPv4 address of the neighbor

ipv6-address

Specifies the IPv6 address of the neighbor

peer-group-name

Specifies the peer group name configured by the **neighbor peer-group-name** command

as-override

Replaces the autonomous system number (ASN) of the originating device with the ASN of the sending BGP device

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/bfd

Enables BFD sessions for specified BGP neighbors or peer groups.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <bfd>
                                <bfd-enable></bfd-enable>
                            </bfd>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-bgp-neighbor-address

Specifies the router bgp neighbor address

ip-address

Specifies the IPv4 address of the neighbor

ipv6-address

Specifies the IPv6 address of the neighbor

peer-group-name

Specifies the peer group name configured by the **neighbor peer-group-name** command

bfd-enable

Enables BFD session

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/bfd/holdover-interval

Configures the time interval for which BFD session DOWN notifications are delayed before notification that a BFD session is down.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <as-override></as-override>
                            <bfd>
                                <holdover-interval>25</holdover-interval>
                            </bfd>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-bgp-neighbor-address

Specifies the router bgp neighbor address

ip-address

Specifies the IPv4 address of the neighbor

ipv6-address

Specifies the IPv6 address of the neighbor

peer-group-name

Specifies the peer group name configured by the **neighbor peer-group-name** command

holdover-interval

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

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/bfd/interval

Configures the interval a device waits to send a control packet to BFD peers.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <bfd>
                                <interval>
                                    <min-tx>250</min-tx>
                                    <min-rx>250</min-rx>
                                    <multiplier>4</multiplier>
                                </interval>
                            </bfd>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-bgp-neighbor-address

Specifies the router bgp neighbor address

ip-address

Specifies the IPv4 address of the neighbor

ipv6-address

Specifies the IPv6 address of the neighbor

peer-group-name

Specifies the peer group name configured by the **neighbor peer-group-name** command

min-tx

Specifies the interval a device waits to send a control packet to BFD peers. On Extreme VDX 6740, VDX 6740T, and VDX 6940 platforms, valid values range from 50 to 30000, and the default is 500. On Extreme VDX 8770 platforms, valid values range from 50 to 30000, and the default is 200

min-rx

Specifies the interval a device waits to receive a control packet from BFD peers. On Extreme VDX 6740, VDX 6740T, and VDX 6940 platforms, valid values range from 50 to 30000, and the default is 500. On Extreme VDX 8770 platforms, valid values range from 50 to 30000, and the default is 200

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

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/capability/as4

Enables support for 4-byte autonomous system numbers (ASNs) at the neighbor or peergroup level.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <af-neighbor-capability>
                                <as4>
                                    <neighbor-as4-enable></neighbor-as4-enable>
                                </as4>
                            </af-neighbor-capability>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

router-bgp-neighbor-address
: Specifies the router bgp neighbor address

ip-address
: Specifies the IPv4 address of the neighbor

ipv6-address
: Specifies the IPv6 address of the neighbor

peer-group-name
: Specifies the peer group name configured by the **neighbor peer-group-name** command

neighbor-as4-enable
: Enables support for 4-byte autonomous system numbers (ASNs) at the neighbor or peergroup level

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/description

Specifies a name for a neighbor.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <description>neighbordesc</description>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-bgp-neighbor-address

Specifies the router bgp neighbor address

ip-address

Specifies the IPv4 address of the neighbor

ipv6-address

Specifies the IPv6 address of the neighbor

peer-group-name

Specifies the peer group name configured by the **neighbor peer-group-name** command

description

Specifies the name of the neighbor, an alphanumeric string up to 220 characters long

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/ebgp-btsh

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

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>10.10.10.10</router-bgp-neighbor-address>
                            <ebgp-btsh></ebgp-btsh>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-bgp-neighbor-address

Specifies the router bgp neighbor address

ip-address

Specifies the IPv4 address of the neighbor

ipv6-address

Specifies the IPv6 address of the neighbor

peer-group-name

Specifies the peer group name configured by the neighbor peer-group-name command

ebgp-btsh

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

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/ebgp-multihop

Allows EBGP neighbors that are not on directly connected networks and sets an optional maximum hop count.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <ebgp-multihop>
                                <ebgp-multihop-count>200</ebgp-multihop-count>
                            </ebgp-multihop>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-bgp-neighbor-address

Specifies the router bgp neighbor address

ip-address

Specifies the IPv4 address of the neighbor

ipv6-address

Specifies the IPv6 address of the neighbor

peer-group-name

Specifies the peer group name configured by the **neighbor peer-group-name** command

ebgp-multihop-count

Specifies the maximum hop count (optional). The value can range from 1 through 255

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/enforce-first-as

Ensures that a device requires the first ASN listed in the AS_SEQUENCE field of an AS path-update message from EBGP neighbors to be the ASN of the neighbor that sent the update.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <enforce-first-as>
                                <nei-enforce-first-as></nei-enforce-first-as>
                            </enforce-first-as>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

router-bgp-neighbor-address
: Specifies the router bgp neighbor address

ip-address
: Specifies the IPv4 address of the neighbor

ipv6-address
: Specifies the IPv6 address of the neighbor

peer-group-name
: Specifies the peer group name configured by the **neighbor peer-group-name** command

nei-enforce-first-as
: Enables the device

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/local-as

Causes the device to prepend the local autonomous system number (ASN) automatically to routes received from an EBGP peer.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <local-as>
                                <local-as-value>50</local-as-value>
                                <no-prepend></no-prepend>
                            </local-as>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

router-bgp-neighbor-address
: Specifies the router bgp neighbor address

  ip-address
  : Specifies the IPv4 address of the neighbor

  ipv6-address
  : Specifies the IPv6 address of the neighbor

  peer-group-name
  : Specifies the peer group name configured by the **neighbor peer-group-name** command

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

no-prepend
: Causes the device to stop prepending the selected ASN

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/maxas-limit

Causes the device to discard routes received in UPDATE messages if those routes exceed a maximum AS path length.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <maxas-limit>
                                <in>
                                    <num-as-in-as-path>200</num-as-in-as-path>
                                </in>
                            </maxas-limit>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

router-bgp-neighbor-address
: Specifies the router bgp neighbor address

ip-address
: Specifies the IPv4 address of the neighbor

ipv6-address
: Specifies the IPv6 address of the neighbor

peer-group-name
: Specifies the peer group name configured by the **neighbor peer-group-name** command

num-as-in-as-path
: Specifies the maximum length of the AS path. The value can range from 0 through 300. The default value is 300

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/maxas-limit/disable

Prevents a neighbor from inheriting the configuration from the peer group or global configuration and instead uses the default system value.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <maxas-limit>
                                <in>
                                    <maxas-limit-disable></maxas-limit-disable>
                                </in>
                            </maxas-limit>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

router-bgp-neighbor-address
: Specifies the router bgp neighbor address

ip-address
: Specifies the IPv4 address of the neighbor

ipv6-address
: Specifies the IPv6 address of the neighbor

peer-group-name
: Specifies the peer group name configured by the **neighbor peer-group-name** command

maxas-limit-disable
: Prevents a neighbor from inheriting the configuration from the peer group

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/next-hop-self

Causes the device to list itself as the next hop in updates that are sent to the specified neighbor.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <next-hop-self>
                                <next-hop-self-always></next-hop-self-always>
                            </next-hop-self>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-bgp-neighbor-address

Specifies the router bgp neighbor address

ip-address

Specifies the IPv4 address of the neighbor

ipv6-address

Specifies the IPv6 address of the neighbor

peer-group-name

Specifies the peer group name configured by the **neighbor peer-group-name** command

next-hop-self-always

Enables the device to list itself as the next hop in updates that are sent to the specified neighbor

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/password

Specifies an MD5 password for securing sessions between the device and a neighbor.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <password>2 $UyEtLQ==</password>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-bgp-neighbor-address

Specifies the router bgp neighbor address

ip-address

Specifies the IPv4 address of the neighbor

ipv6-address

Specifies the IPv6 address of the neighbor

peer-group-name

Specifies the peer group name configured by the **neighbor peer-group-name** command

password

Specifies the password of up to 63 characters in length that can contain any alphanumeric character

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/peer-group

Configures a BGP neighbor to be a member of a peer group.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <peer-group>mypeergroup1</peer-group>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-bgp-neighbor-address

Specifies the router bgp neighbor address

ip-address

Specifies the IPv4 address of the neighbor

ipv6-address

Specifies the IPv6 address of the neighbor

peer-group-name

Specifies the peer group name configured by the **neighbor peer-group-name** command

peer-group

Specifies the name of a BGP peer group. The name can be up to 63 characters in length and can be composed of any alphanumeric character

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/remote-as

Specifies the autonomous system (AS) in which a remote neighbor resides.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <remote-as>55</remote-as>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-bgp-neighbor-address

Specifies the router bgp neighbor address

ip-address

Specifies the IPv4 address of the neighbor

ipv6-address

Specifies the IPv6 address of the neighbor

peer-group-name

Specifies the peer group name configured by the **neighbor peer-group-name** command

remote-as

Specifies the Remote AS number (ASN). The value can range from 1 through 4294967295

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/remove-private-as

Configures a device to remove private autonomous system numbers (ASNs) from UPDATE messages that the device sends to a neighbor.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <remove-private-as></remove-private-as>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

router-bgp-neighbor-address
: Specifies the router bgp neighbor address

ip-address
: Specifies the IPv4 address of the neighbor

ipv6-address
: Specifies the IPv6 address of the neighbor

peer-group-name
: Specifies the peer group name configured by the **neighbor peer-group-name** command

remove-private-as
: Enables the device to remove private autonomous system numbers (ASNs) from UPDATE messages that the device sends to a neighbor

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/shutdown

Causes a device to shut down the session administratively with its BGP neighbor.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <shutdown>
                                <shutdown-status></shutdown-status>
                            </shutdown>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-bgp-neighbor-address

Specifies the router bgp neighbor address

ip-address

Specifies the IPv4 address of the neighbor

ipv6-address

Specifies the IPv6 address of the neighbor

peer-group-name

Specifies the peer group name configured by the **neighbor peer-group-name** command

shutdown-status

Shuts down the session

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/soft-reconfiguration/inbound

Stores all the route updates received from a BGP neighbor.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <soft-reconfiguration>
                                <inbound></inbound>
                            </soft-reconfiguration>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-bgp-neighbor-address

Specifies the router bgp neighbor address

ip-address

Specifies the IPv4 address of the neighbor

ipv6-address

Specifies the IPv6 address of the neighbor

peer-group-name

Specifies the peer group name configured by the **neighbor peer-group-name** command

inbound

Stores all the route updates received from a BGP neighbor.

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/timers

Specifies how frequently a device sends KEEPALIVE messages to its BGP neighbors, as well as how long the device waits for KEEPALIVE or UPDATE messages before concluding that a neighbor is dead.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <timers>
                                <nei-keep-alive>65</nei-keep-alive>
                                <nei-hold-time>185</nei-hold-time>
                            </timers>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-bgp-neighbor-address

Specifies the router bgp neighbor address

ip-address

Specifies the IPv4 address of the neighbor

ipv6-address

Specifies the IPv6 address of the neighbor

peer-group-name

Specifies the peer group name configured by the **neighbor peer-group-name** command

nei-keep-alive

Specifies the frequency 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

nei-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

rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/update-source

Configures the BGP device to communicate with a neighbor through a specified interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <neighbor>
                    <neighbor-ips>
                        <neighbor-addr>
                            <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
                            <update-source>
                                <ethernet-interface>
                                    <interface-type>fortygigabitethernet</interface-type>
                                    <ethernet>1/0/50</ethernet>
                                </ethernet-interface>
                            </update-source>
                        </neighbor-addr>
                    </neighbor-ips>
                </neighbor>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

router-bgp-neighbor-address

Specifies the router bgp neighbor address

ip-address

Specifies the IPv4 address of the neighbor

ipv6-address

Specifies the IPv6 address of the neighbor

peer-group-name

Specifies the peer group name configured by the **neighbor peer-group-name** command

interface-type

Specifies the interface type

ethernet

Specifies the interface name

rbridge-id/{rbridge-number}/router/bgp/timers

Adjusts the interval at which BGP KEEPALIVE and HOLDTIME messages are sent.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
            <router-bgp-attributes>
                <timers>
                    <keep-alive>70</keep-alive>
                    <hold-time>190</hold-time>
                </timers>
            </router-bgp-attributes>
        </router-bgp>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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 is 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

rbridge-id/{rbridge-number}/router/ospf

Enables and configures the Open Shortest Path First (OSPF) routing protocol over virtual forward and routing (VRF).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

rbridge-id/{rbridge-number}/router/ospf/area/nssa

Creates a not-so-stubby area (NSSA) or modifies its parameters.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
 <rbridge-id>2</rbridge-id>
  <router>
   <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
    <vrf>default-vrf</vrf>
     <default-metric>10</default-metric>
      <area>
       <area-id>2</area-id>
        <nssa>
         <metric>
           <nssa-value>5</nssa-value>
           <nssa-no-summary></nssa-no-summary>
          </metric>
            <default-information-metric> </default-information-metric>
            <no-redistribution></no-redistribution>
            <translator-always></translator-always>
            <translator-interval></translator-interval>
         </nssa>
       </area>
    </ospf>
  </router>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

vrf
: Specifies the VRF name

area-id
: Specifies the area address

nssa-value
: Specifies the additional cost for using a route to or from this area

default-information-metric
: When configured on the ABR, this parameter injects a Type 7 default route into the NSSA area.

no-redistribution
: Specifies to not send redistributed LSA into NSSA area.

translator-always
: Sets NSSA translator role

translator-interval
: Sets NSSA translator stability interval

History

Release version	History
7.0.1	Added the four new keywords: **default-information-metric**, **no-redistribution**, **translator-always**, and **translator-interval**.

rbridge-id/{rbridge-number}/router/ospf/area/prefix-list

Configures prefix list for filtering routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <area>
                <area-id>0</area-id>
                <prefix-list>
                    <prefix-list-name>prefix1</prefix-list-name>
                    <prefix-list-direction>in</prefix-list-direction>
                </prefix-list>
            </area>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

vrf
: Specifies the VRF name

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

prefix-list-name
: Specifies the name of the prefix list

prefix-list-direction
: Specifies the direction

in
: Applies the filter in incoming routes

out
: Applies the filter in outgoing routes

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/router/ospf/area/range

Specifies area range parameters on an Area Border Router (ABR).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>vrf1</vrf>
            <area>
                <area-id>1</area-id>
                <range>
                    <range-address>1.1.1.0</range-address>
                    <range-mask>255.255.255.0</range-mask>
                    <range-effect>not-advertise</range-effect>
                    <range-cost>1</range-cost>
                </range>
            </area>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

area-id

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

range-address

Specifies the IP address and mask portion of the range. All network addresses that match this network are summarized in a single route and
advertised by the ABR

range-effect

Sets the address range status to DoNotAdvertise; the Type 3 LSA is suppressed, and the component networks remain hidden from other networks. This setting is used to temporarily pause route summarization from the area

range-cost

Sets the cost value for the area range. This value is used as the generated summary LSA cost. The range for cost_value is 1 to 6777214. If this value is not specified, the cost value is the default range metric calculation for the generated summary LSA cost

rbridge-id/{rbridge-number}/router/ospf/area/stub

Creates a stub area or modifies its parameters.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>vrf1</vrf>
            <area>
                <area-id>1</area-id>
                <stub>2</stub>
            </area>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

area-id

Specifies the area address

stub

Specifies the additional cost for using a route to or from this area. The value can range from 3 through 1048575

rbridge-id/{rbridge-number}/router/ospf/area/virtual-link

Creates or modifies virtual links for an area.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>vrf1</vrf>
            <area>
                <area-id>1</area-id>
                <virtual-link>
                    <virt-link-neighbor>10.1.2.3</virt-link-neighbor>
                </virtual-link>
            </area>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

area-id

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

virt-link-neighbor

Specifies the ID of the OSPF router at the remote end of the virtual link.

rbridge-id/{rbridge-number}/router/ospf/area/virtual-link/retransmit-interval

Configures the time between Link State Advertisement (LSA) retransmissions for adjacencies belonging to the interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>vrf1</vrf>
                <area>
                    <area-id>1</area-id>
                    <normal></normal>
                    <virtual-link>
                        <virtual-link-neighbor>1.1.1.1</virtual-link-neighbor>
                        <link-properties>
                            <link-interval-properties>
                                <retransmit-interval>10</retransmit-interval>
                            </link-interval-properties>
                        </link-properties>
                    </virtual-link>
                </area>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

area-id

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

virtual-link-neighbor

Specifies the ID of the OSPF router at the remote end of the virtual link

retransmit-interval

Specifies the time between Link State Advertisement (LSA) retransmissions for adjacencies belonging to the interface. Set this interval to a value larger than the expected round-trip delay between any two routers on the attached network. The value can range from 0 through 3600 seconds. The default value is 5 seconds

rbridge-id/{rbridge-number}/router/ospf/area/virtual-link/transmit-delay

Configures the estimated time required to send an LSA on the interface.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ipv6>
        <router>
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
                <vrf>vrf1</vrf>
                <area>
                    <area-id>1</area-id>
                    <normal></normal>
                    <virtual-link>
                        <virtual-link-neighbor>1.1.1.1</virtual-link-neighbor>
                        <link-properties>
                            <link-interval-properties>
                                <transmit-delay>2</transmit-delay>
                            </link-interval-properties>
                        </link-properties>
                    </virtual-link>
                </area>
            </ospf>
        </router>
    </ipv6>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

area-id

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

virtual-link-neighbor

Specifies the ID of the OSPF router at the remote end of the virtual link

transmit-delay

Specifies the estimated time required to send an LSA on the interface. This value must be an integer greater than zero. The age of each LSA in the update packet is incremented by the value of this parameter before transmission occurs. The value can range from 0 through 3600 seconds. The default value is 1 second

rbridge-id/{rbridge-number}/router/ospf/auto-cost/reference-bandwidth

Configures reference bandwidth.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <auto-cost>
                <reference-bandwidth>
                    <ref-bandwidth>100</ref-bandwidth>
                </reference-bandwidth>
            </auto-cost>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

ref-bandwidth

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

rbridge-id/{rbridge-number}/router/ospf/auto-cost/reference-bandwidth/use-active-ports

Enables cost calculation for currently active ports only.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <auto-cost>
                <reference-bandwidth>
                    <use-active-ports></use-active-ports>
                </reference-bandwidth>
            </auto-cost>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

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

rbridge-id/{rbridge-number}/router/ospf/bfd

Enables Bidirectional Forwarding Detection (BFD).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <global-bfd>
                <bfd-enable></bfd-enable>
            </global-bfd>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

bfd-enable

Enables Bidirectional Forwarding Detection (BFD)

rbridge-id/{rbridge-number}/router/ospf/bfd/holdover-interval

Sets the time interval for which OSPF or BGP routes are withdrawn after a BFD session is declared down.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <global-bfd>
                <holdover-interval>12</holdover-interval>
            </global-bfd>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

holdover-interval

Specifies BFD holdover-time interval in seconds. The value can range from 1 through 20. The default value is 0

rbridge-id/{rbridge-number}/router/ospf/database-overflow-interval

Configures frequency for monitoring database overflow.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <database-overflow-interval>10</database-overflow-interval>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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 second

rbridge-id/{rbridge-number}/router/ospf/default-information-originate

Controls distribution of default information to an OSPF router.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <default-information-originate>
                <always></always>
                <def-orig-metric>10</def-orig-metric>
                <def-orig-metric-type>type1</def-orig-metric-type>
                <def-orig-route-map>route1</def-orig-route-map>
            </default-information-originate>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

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

def-orig-metric

Specifies the cost for reaching the rest of the world through this route. If you omit this parameter and do not specify a value using the default-metric router configuration command, a default metric value of 1 is used. The value can range from 1 through 65535. The default value is 10

def-orig-metric-type

Specifies how the cost of a neighbor metric is determined

type-1

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

type-2

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

def-orig-route-map

Specifies the route map name

rbridge-id/{rbridge-number}/router/ospf/default-metric

Sets the default metric value for the OSPF or OSPFv3 routing protocol.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <default-metric>10</default-metric>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

default-metric

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

rbridge-id/{rbridge-number}/router/ospf/default-passive-interface

Marks all OSPF and OSPFv3 interfaces passive by default.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <default-passive-interface></default-passive-interface>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

default-passive-interface

Marks all OSPF and OSPFv3 interfaces passive by default

rbridge-id/{rbridge-number}/router/ospf/distance

Configures an administrative distance value for OSPF and OSPFv3 routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <distance>
                <route-type>external</route-type>
                <dist-value>10</dist-value>
            </distance>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

route-type

Sets the route type

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

dist-value

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

rbridge-id/{rbridge-number}/router/ospf/distribute-list/route-map

Creates a route-map distribution list.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <distribute-list>
                <route-map>
                    <route-map>route1</route-map>
                    <direction-in></direction-in>
                </route-map>
            </distribute-list>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

route-map

Specifies the name of a route map

direction-in

Creates a distribution list for an inbound route map

rbridge-id/{rbridge-number}/router/ospf/external-lsdb-limit

Configures the maximum size of the external link state database (LSDB).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <external-lsdb-limit>10000000</external-lsdb-limit>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

external-lsdb-limit

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

rbridge-id/{rbridge-number}/router/ospf/graceful-restart

Enables the OSPF Graceful Restart (GR) capability.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <graceful-restart>
                <graceful-restart-enable></graceful-restart-enable>
            </graceful-restart>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

graceful-restart-enable

Enables the OSPF Graceful Restart (GR) capability

rbridge-id/{rbridge-number}/router/ospf/graceful-restart/helper-disable

Disables the GR helper capability.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <graceful-restart>
                <graceful-restart-enable></graceful-restart-enable>
                <helper-disable></helper-disable>
            </graceful-restart>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

vrf
: Specifies the VRF name

graceful-restart-enable
: Enables the OSPF Graceful Restart (GR) capability

helper-disable
: Disables the GR helper capability

rbridge-id/{rbridge-number}/router/ospf/graceful-restart/restart-time

Configures the maximum restart wait time.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <graceful-restart>
                <graceful-restart-enable></graceful-restart-enable>
                <restart-time>125</restart-time>
            </graceful-restart>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

graceful-restart-enable

Enables the OSPF Graceful Restart (GR) capability

restart-time

Specifies the maximum restart wait time, in seconds, advertised to neighbors. The value can range from 10 to 1800 seconds. The default value is 120 seconds

rbridge-id/{rbridge-number}/router/ospf/log

Controls the generation of OSPFv2 logs.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <log>
                <adjacency>
                    <dr-only></dr-only>
                </adjacency>
            </log>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

log

Specifies the log type

adjacency

Specifies the logging of essential OSPFv2 neighbor state changes

all

Specifies the logging of all syslog messages

bad-packet

Specifies the logging of bad OSPFv2 packets

checksum

Specifies all OSPFv2 packets that have checksum errors

database

Specifies the logging of OSPFv2 LSA-related information

retransmit

Specifies the logging of OSPFv2 retransmission activities

rbridge-id/{rbridge-number}/router/ospf/maximum-paths

Changes the maximum number of OSPF shared paths.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <maximum-paths>10</maximum-paths>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

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

rbridge-id/{rbridge-number}/router/ospf/max-metric/router-lsa/external-lsa

Modifies the metric of all external type 5 LSAs to equal the specified value or a default value.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <max-metric>
                <router-lsa>
                    <external-lsa>
                        <external-lsa-val>1212121</external-lsa-val>
                    </external-lsa>
                </router-lsa>
            </max-metric>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

external-lsa-val

Specifies the metriv value. The value can range from 1 through 16777214 (0x00001 - 0x00FFFFFE). The default value is 16711680 (0x00FF0000).

rbridge-id/{rbridge-number}/router/ospf/max-metric/router-lsa/link

Configures the types of links for which the maximum metric is advertised.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <max-metric>
                <router-lsa>
                    <link>
                        <transit></transit>
                    </link>
                </router-lsa>
            </max-metric>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

link

Specifies the types of links for which the maximum metric is advertised

all

Advertises the maximum metric in Router LSAs for all supported link types

ptp

Advertises the maximum metric in Router LSAs for point-to-point links

stub

Advertises the maximum metric in Router LSAs for stub links

transit

Advertises the maximum metric in Router LSAs for transit links. This is the default link type

rbridge-id/{rbridge-number}/router/ospf/max-metric/router-lsa/summary-lsa

Modifies the metric of all summary type 3 and type 4 LSAs to equal the specified value or a default value.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <max-metric>
                <router-lsa>
                    <summary-lsa>
                        <summary-lsa-val>16711680</summary-lsa-val>
                    </summary-lsa>
                </router-lsa>
            </max-metric>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

summary-lsa-val

Specifies the summary metric value. The value can range from 1 through 16777214 (0x00001 - 0x00FFFFFE). The default value is 16711680 (0x00FF0000).

rbridge-id/{rbridge-number}/router/ospf/metric-type

Configures the default metric type for external routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <ospf-metric-type>type1</ospf-metric-type>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

ospf-metric-type

Specifies thr metric type

type1

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

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

rbridge-id/{rbridge-number}/router/ospf/neighbor

Manually configures a neighbor.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <neighbor>
                <neighbor-addr>1.1.1.1</neighbor-addr>
            </neighbor>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

neighbor-addr

Specifies the IPv4 address of the neighbor

rbridge-id/{rbridge-number}/router/ospf/nssa-translator

Configures Not So Stubby Area (NSSA) Type 7-to-Type 5 Link State Advertisement (LSA) translation.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>vrf1</vrf>
            <nssa-translator></nssa-translator>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

nssa-translator

Enables Not So Stubby Area (NSSA) Type 7-to-Type 5 Link State Advertisement (LSA) translation

rbridge-id/{rbridge-number}/router/ospf/redistribute/bgp/route-map

Configures the device to redistribute routes from one routing domain to another.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <redistribute>
                <bgp>
                    <bgp-route-map>route1</bgp-route-map>
                </bgp>
            </redistribute>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

bgp-route-map

Specifies a route map to be consulted before a route is added to the routing table

rbridge-id/{rbridge-number}/router/ospf/redistribute/connected/route-map

Configures the device to redistributes directly connected routes from one routing domain to another.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <redistribute>
                <connected>
                    <connected-route-map>route1</connected-route-map>
                </connected>
            </redistribute>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

connected-route-map

Specifies a route map to be consulted before a route is added to the routing table

rbridge-id/{rbridge-number}/router/ospf/redistribute/ospf/route-map

Redistributes OSPF routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <redistribute>
                <redistribute-ospf>
                    <ospf-route-map>route1</ospf-route-map>
                </redistribute-ospf>
            </redistribute>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

ospf-route-map

Specifies a route map to be consulted before a route is added to the routing table

rbridge-id/{rbridge-number}/router/ospf/redistribute/static/route-map

Redistributes static routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <redistribute>
                <static>
                    <static-route-map>route1</static-route-map>
                </static>
            </redistribute>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

static-route-map

Specifies a route map to be consulted before a route is added to the routing table

rbridge-id/{rbridge-number}/router/ospf/rfc1583-compatibility

Configures compatibility with RFC 1583.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>vrf1</vrf>
            <rfc1583-compatibility></rfc1583-compatibility>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

rfc1583-compatibility

Enables compatibility with RFC 1583

rbridge-id/{rbridge-number}/router/ospf/rfc1587-compatibility

Configures compatibility with RFC 1587.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>vrf1</vrf>
            <rfc1587-compatibility></rfc1587-compatibility>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

rfc1587-compatibility

Enables compatibility with RFC 1587

rbridge-id/{rbridge-number}/router/ospf/summary-address

Configures route summarization for redistributed routes for an Autonomous System Boundary Router (ASBR).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <summary-address>
                <sum-address>10.1.0.0</sum-address>
                <sum-address-mask>255.255.0.0</sum-address-mask>
            </summary-address>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

vrf
: Specifies the VRF name

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

rbridge-id/{rbridge-number}/router/ospf/timers/lsa-group-pacing

Configures the interval at which OSPF LSAs are collected into a group and refreshed, check-summed, or aged by the OSPF process.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <timers>
                <lsa-group-pacing>250</lsa-group-pacing>
            </timers>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

lsa-group-pacing

Specifies the interval at which OSPF LSAs are collected into a group and refreshed, check-summed, or aged by the OSPF process. The values can range from 10 to 1800 seconds. The default value is 240 seconds

rbridge-id/{rbridge-number}/router/ospf/timers/throttle

Configures the start, hold and maximum wait intervals for throttling SPF calculations for performance.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>default-vrf</vrf>
            <timers>
                <throttle>
                    <spf>
                        <init-delay>10</init-delay>
                        <hold-time>5010</hold-time>
                        <max-hold-time>10010</max-hold-time>
                    </spf>
                </throttle>
            </timers>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

init-delay

Specifies the initial SPF calculation delay. The values can range from 0 to 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 to 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 to 60000 milliseconds. The default value is 10000 milliseconds

rbridge-id/{rbridge-number}/router/ospf/vrf/vrf-lite-capability

Disables the down bit (DN bit) that is set when routes are redistributed from multiprotocol BGP (MPBGP) to OSPF.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
            <vrf>vrf1</vrf>
            <vrf-lite-capability></vrf-lite-capability>
        </ospf>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf

Specifies the VRF name

vrf-lite-capability

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

rbridge-id/{rbridge-number}/router/pim

Enables the Protocol Independent Multicast (PIM) routing protocol.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
            <pim></pim>
        </hide-pim-holder>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

pim

Enables the Protocol Independent Multicast (PIM) routing protocol

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

Sets the bootstrap router (BSR) priority.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
        <rbridge-id>9</rbridge-id>
         <router>
          <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
           <pim>
            <bsr-candidate>
       <bsr-cand-interface>
              <bsr-cand-intf-type>tengigabitethernet</bsr-cand-intf-type>
                  <bsr-cand-intf-id>9/0/25</bsr-cand-intf-id>
                   <hash-mask-length>3</hash-mask-length>
                    <bsr-cand-priority>13</bsr-cand-priority>
             </bsr-cand-interface>
            </bsr-candidate>
           </pim>
          </hide-pim-holder>
         </router>
      </rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID.

bsr-candidate
: Specifies the BSR candidate.

bsr-cand-interface
: Specifies the interface information.

bsr-cand-intf-type
: Specifies the interface type.

bsr-cand-intf-id
: Specifies the interface ID.

hash-mask-length
: Specifies the BSR hash mask length.

bsr-cand-priority
: Specifies the BSR candidate priority.

History

Release version	History
7.1.0	This NETCONF call was introduced.

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

Sets the Protocol-Independent Multicast (PIM) bootstrap router (BSR) message interval timer.

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
            <rbridge-id>9</rbridge-id>
            <router>
               <hide-pim-holder xmlns=""urn:brocade.com:mgmt:brocade-pim"">
                  <pim>
                     <bsr-msg-interval>633</bsr-msg-interval>
                  </pim>
               </hide-pim-holder>
            </router>
         </rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID.

bsr-msg-interval

Specifies the bootstrap message interval value.

History

Release version	History
7.1.0	This NETCONF call was introduced.

rbridge-id/{rbridge-number}/router/pim/hello-interval

Configures hello message interval.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
            <pim>
                <hello-interval>30</hello-interval>
            </pim>
        </hide-pim-holder>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

hello-interval

Specifies the hello interval. The value can range from10 through 3600 seconds. The default interval is 30 seconds

rbridge-id/{rbridge-number}/router/pim/inactivity-timer

Configures the Protocol Independent Multicast (PIM) forwarding-entry inactivity timer.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
            <pim>
                <inactivity-timer>180</inactivity-timer>
            </pim>
        </hide-pim-holder>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

inactivity-timer

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

rbridge-id/{rbridge-number}/router/pim/max-mcache

Configures the maximum multicast cache size.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
            <pim>
                <max-mcache>2048</max-mcache>
            </pim>
        </hide-pim-holder>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

max-mcache

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

rbridge-id/{rbridge-number}/router/pim/message-interval

Configures the Protocol Independent Multicast (PIM) Join/Prune message interval.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
            <pim>
                <message-interval>60</message-interval>
            </pim>
        </hide-pim-holder>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

message-interval

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

rbridge-id/{rbridge-number}/router/pim/nbr-timeout

Configures the neighbor timeout interval after which a neighbor is considered to be absent.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
            <pim>
                <nbr-timeout>105</nbr-timeout>
            </pim>
        </hide-pim-holder>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

nbr-timeout

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

rbridge-id/{rbridge-number}/router/pim/reset-tracking-bit

For interfaces under protocol-independent multicast (PIM), resets the tracking bit to zero. This enables join suppression, which can reduce the number of PIM-protocol packets in the network.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
            <pim>
                <reset-tracking-bit></reset-tracking-bit>
            </pim>
        </hide-pim-holder>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

reset-tracking-bit

Resets the tracking bit to zero

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/router/pim/rp-address

Adds or removes a static rendezvous-point (RP) address for a protocol-independent multicast (PIM) domain. You can also specify the name of a prefix list that defines a multicast-group range for which this RP hashes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
            <pim>
                <rp-address>
                    <rp-ip-addr>1.1.1.1</rp-ip-addr>
                    <prefix-list>prefix1</prefix-list>
                </rp-address>
            </pim>
        </hide-pim-holder>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

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 between 1 through 63 characters. Although the first character must be alphabetic, the others can be alphanumeric, underscores (_), or minus signs (-)

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

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

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
            <rbridge-id>9</rbridge-id>
            <router>
               <hide-pim-holder xmlns=""urn:brocade.com:mgmt:brocade-pim"">
                  <pim>
                     <rp-adv-interval>300</rp-adv-interval>
                  </pim>
               </hide-pim-holder>
            </router>
         </rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID.

rp-adv-interval

Specifies the RP candidate advertisement message interval value.

History

Release version	History
7.1.0	This NETCONF call was introduced.

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

Configures the group prefix IP address.

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
            <rbridge-id>9</rbridge-id>
            <router>
               <hide-pim-holder xmlns=""urn:brocade.com:mgmt:brocade-pim"">
                  <pim>
                     <rp-candidate>
                        <rp-cand-grp-prefix>
                           <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>
                        </rp-cand-grp-prefix>
                     </rp-candidate>
                  </pim>
               </hide-pim-holder>
            </router>
         </rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID.

rp-candidate
: Configures the RP candidate.

rp-cand-grp-prefix
: Specifies the group prefix.

rp-cand-grp-prefix-ip
: Specifies the group prefix IP address.

rp-cand-grp-prefix-length
: Specifies the prefix length.

History

Release version	History
7.1.0	This NETCONF call was introduced.

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

Configures the rendezvous point (RP) candidate.

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
            <rbridge-id>9</rbridge-id>
            <router>
               <hide-pim-holder xmlns=""urn:brocade.com:mgmt:brocade-pim"">
                  <pim>
                     <rp-candidate>
                        <rp-cand-interface>
                           <rp-cand-intf-type>ve</rp-cand-intf-type>
                           <rp-cand-intf-id>3</rp-cand-intf-id>
                           <rp-cand-priority>33</rp-cand-priority>
                        </rp-cand-interface>
                     </rp-candidate>
                  </pim>
               </hide-pim-holder>
            </router>
         </rbridge-id>
```

Parameters

rbridge-id
Specifies the RBridge ID.

rp-candidate
Configures the RP candidate.

rp-cand-interface
Configures the RP candidate interface information.

rp-cand-intf-type
Specifies the interface type.

rp-cand-intf-id
Specifies the interface ID.

rp-cand-priority
Specifies the RP candidate priority.

History

Release version	History
7.1.0	This NETCONF call was introduced.

rbridge-id/{rbridge-number}/router/pim/spt-threshold

Configures the Shortest Path Tree (SPT) threshold.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <router>
        <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
            <pim>
                <spt-threshold>1</spt-threshold>
            </pim>
        </hide-pim-holder>
    </router>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

spt-threshold

Specifies the Shortest Path Tree (SPT) threshold

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

rbridge-id/{rbridge-number}/secpolicy/defined-policy

Creates the device connection control (SCC) policy and adds the SCC defined policy set members (WWNs).

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <secpolicy xmlns="urn:brocade.com:mgmt:brocade-fc-auth">
        <defined-policy>
            <policies>
                <policy>SCC_POLICY</policy>
                <member-entry>
                    <member>10:00:00:05:1e:00:69:00</member>
                </member-entry>
            </policies>
        </defined-policy>
    </secpolicy>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

policy

Specifies the policy name

member

Specifies the device WWN to be added to the SCC defined policy set

rbridge-id/{rbridge-number}/snmp-server/engineid

Configures a user-defined engine ID for the SNMP agent.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
        <engineID>
            <local>10:20:30:40:50:60:70:80:90:10:30:12</local>
        </engineID>
    </snmp-server>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

local

Specifies the engine ID

rbridge-id/{rbridge-number}/snmp-server/offline-if

Allows SNMP to display offline interfaces when linecard is powered-off.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>103</rbridge-id>
    <snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
        <offline-if>
            <offline-if-display-enable></offline-if-display-enable>
        </offline-if>
    </snmp-server>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

offline-if-display-enable

Allows SNMP to display offline interfaces when linecard is powered-off

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge/{rbridge-number}/snmp-server/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.

Usage

```
<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">
   <three-tuple-if y:self="/rest/config/running/rbridge-id/1/snmp-server/three-tuple-if">
    <enable>true</enable>
  </three-tuple-if>
    <three-tuple-if y:self="/rest/config/running/rbridge-id/1/rbridge-id/2/snmp-server/three-tuple-if">
  </three-tuple-if>
</snmp-server>
```

Parameters

enable

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

History

Release version	History
7.0.1	This Netconf call was introduced.

rbridge-id/{rbridge-number}/snmp-server/user

Creates or changes the attributes of SNMPv3 users, and allows the SNMPv3 user to be associated with the user-defined group name.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
        <user>
            <username>snmpuser1</username>
            <groupname>group1</groupname>
            <auth>md5</auth>
            <auth-password>password</auth-password>
            <priv>DES</priv>
            <priv-password>password</priv-password>
            <encrypted></encrypted>
        </user>
    </snmp-server>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

username

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

groupname

Specifies the name of the group to which the user is associated

auth

Initiates an authentication level setting session. Default is noauth

md5

The HMAC-MD5-96 authentication level

sha

The HMAC-SHA-96 authentication level

noauth

Removes authentication

auth-password

Specifies a string that enables the agent to receive packets from the host. Passwords are plain text and must be added each time for each configuration replay. The password can be between 1 and 32 characters long

priv

Initiates a privacy authentication level setting session. Default is nopriv

AES128

Specifies the AES128 privacy protocol

DES

Specifies the DES privacy protocol

nopriv

Removes privacy

priv-password

Specifies a string (not to exceed 32 characters) that enables the host to encrypt the contents of the message that it sends to the agent

encrypted

Used to enter the input for auth/priv passwords as encrypted. The encrypted key should be used only while entering the encrypted auth/priv passwords

rbridge-id/{rbridge-number}/snmp-server/v3host

Specifies the recipient of the SNMPv3 notification parameter.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
        <v3host>
            <hostip>10.26.3.166</hostip>
            <username>snmpuser1</username>
            <udp-port>162</udp-port>
            <notifytype>traps</notifytype>
            <engineid>10:20:30:40:50:60:70:80:90:10:30:12</engineid>
            <severity-level>None</severity-level>
        </v3host>
    </snmp-server>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

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

username
: Specifies the SNMPv3 user name to be associated with the SNMPv3 host entry

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

notifytype
: Specifies the type of notification traps that are sent for the host. Traps and informs are supported. The default notify type is traps

engineid
: Specifies 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. The supported severity levels are **none**, **debug**, **info**, **warning**, **error**, and **critical**

rbridge-id/{rbridge-number}/ssh/client/cipher

Sets the SSH client's cipher list for the SSH client.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
        <client>
            <cipher>non-cbc</cipher>
        </client>
    </ssh>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

cipher

Specifies the name of the cipher

rbridge-id/{rbridge-number}/ssh/client/key-exchange

Specifies the method used for generating the one-time session keys for encryption and authentication with the Secure Shell (SSH) server and Diffie-Hellman group 14.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
        <client>
            <key-exchange>dh-group-14</key-exchange>
        </client>
    </ssh>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

key-exchange

Specifies the supported key-exchange alogarithm

rbridge-id/{rbridge-number}/ssh/client/mac

Supports MAC configurations for the SSH client.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
        <client>
            <mac>hmac-md5</mac>
        </client>
    </ssh>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

mac

Specifies the name of the default MAC required. The supported MAC types are **hmac-md5**, **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**

rbridge-id/{rbridge-number}/ssh/server/cipher

Sets the SSH server's cipher list for the SSH server.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
        <server>
            <cipher>non-cbc</cipher>
        </server>
    </ssh>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

cipher

Specifies the name of the cipher

rbridge-id/{rbridge-number}/ssh/server/key/dsa

Enables DSA algorithm type.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
        <server>
            <key>
                <dsa></dsa>
            </key>
        </server>
    </ssh>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

dsa

Enables DSA algorithm type

rbridge-id/{rbridge-number}/ssh/server/key/ecdsa

Enables ECDSA algorithm type.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
        <server>
            <key>
                <ecdsa>256</ecdsa>
            </key>
        </server>
    </ssh>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

ecdsa

Specifies the ECDSA alogorithm value

rbridge-id/{rbridge-number}/ssh/server/key/rsa

Enables RSA algorithm type.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
        <server>
            <key>
                <rsa>2048</rsa>
            </key>
        </server>
    </ssh>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

rsa

Specifies the RSA algorithm type

rbridge-id/{rbridge-number}/ssh/server/key-exchange

Specifies the method used for generating the one-time session keys for encryption and authentication with the Secure Shell (SSH) server and Diffie-Hellman group 14.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
        <server>
            <key-exchange>dh-group-14</key-exchange>
        </server>
    </ssh>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

key-exchange

Specifies the key-exchange algorithm

rbridge-id/{rbridge-number}/ssh/server/mac

Supports MAC configurations for the SSH server.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
        <server>
            <mac>hmac-sha1</mac>
        </server>
    </ssh>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

mac

Specifies the name of the default MAC required. The supoported MAC types are **hmac-md5**, **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**

rbridge-id/{rbridge-number}/ssh/server/rekey-interval

Configures the Secure Shell (SSH) server rekey-interval.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
        <server>
            <rekey-interval>1000</rekey-interval>
        </server>
    </ssh>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

rekey-interval

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

rbridge-id/{rbridge-number}/ssh/server/shutdown

Disables SSH service on the switch.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
        <server>
            <shutdown></shutdown>
        </server>
    </ssh>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

shutdown

Disables SSH service on the switch

rbridge-id/{rbridge-number}/ssh/server/standby

Enables the SSH services on the standby MM.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
        <server>
            <standby>
                <enable></enable>
            </standby>
        </server>
    </ssh>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

enable

Enables the SSH services on the standby MM

rbridge-id/{rbridge-number}/ssh/server/use-vrf

Configures VRF

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
        <server>
            <ssh-vrf-cont>
                <use-vrf>
                    <use-vrf-name>vrf1</use-vrf-name>
                </use-vrf>
            </ssh-vrf-cont>
        </server>
    </ssh>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

use-vrf-name

Specifies the VRF name

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/switch-attributes

Sets switch attributes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <switch-attributes>
        <chassis-name>VDX6740</chassis-name>
        <host-name>sw0</host-name>
    </switch-attributes>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

chassis-name

Specifies the switch chassis name. The string can be between 1 and 30 ASCII characters in length, and the leading character must be a letter

host-name

Specifies the switch host name. The string can be between 1 and 30 ASCII characters in length, and the leading character must be a letter

rbridge-id/{rbridge-number}/system-mode/maintenance

Enables maintenance mode for graceful traffic diversion on ISL ports and disabling all edge ports during debugging or firmware upgrades.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>103</rbridge-id>
    <system-mode>
        <maintenance></maintenance>
    </system-mode>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

maintenance

Enables maintenance mode

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/system-monitor/linecard/alert

Specifies whether an alert is sent when a threshold value is either above or below a threshold trigger.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
        <LineCard>
            <alert>
                <state>none</state>
                <action>none</action>
            </alert>
        </LineCard>
    </system-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

action

Specifies the response type

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

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

rbridge-id/{rbridge-number}/system-monitor/linecard/threshold

Specifies thresholds for line cards.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
        <LineCard>
            <threshold>
                <marginal-threshold>1</marginal-threshold>
                <down-threshold>2</down-threshold>
            </threshold>
        </LineCard>
    </system-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

marginal-threshold

Specifies an integer value that, when exceeded, indicates when hardware is operating marginally

down-threshold

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

rbridge-id/{rbridge-number}/system-monitor/MM/threshold

Specifies thresholds for management modules.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
        <MM>
            <threshold>
                <marginal-threshold>1</marginal-threshold>
                <down-threshold>0</down-threshold>
            </threshold>
        </MM>
    </system-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

marginal-threshold

Specifies an integer value that, when exceeded, indicates when hardware is operating marginally

down-threshold

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

rbridge-id/{rbridge-number}/system-monitor/sfm/threshold

Specifies thresholds for SFM modules.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
        <SFM>
            <threshold>
                <marginal-threshold>1</marginal-threshold>
                <down-threshold>2</down-threshold>
            </threshold>
        </SFM>
    </system-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

marginal-threshold

Specifies an integer value that, when exceeded, indicates when hardware is operating marginally

down-threshold

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

rbridge-id/{rbridge-number}/system-monitor/cid-card/alert

Specifies alerts for the chassis ID card.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
        <cid-card>
            <alert>
                <state>none</state>
                <action>none</action>
            </alert>
        </cid-card>
    </system-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

action

Specifies the response type

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

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

rbridge-id/{rbridge-number}/system-monitor/cid-card/threshold

Specifies thresholds for the chassis ID card.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
        <cid-card>
            <threshold>
                <marginal-threshold>1</marginal-threshold>
                <down-threshold>2</down-threshold>
            </threshold>
        </cid-card>
    </system-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

marginal-threshold

Specifies an integer value that, when exceeded, indicates when hardware is operating marginally

down-threshold

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

rbridge-id/{rbridge-number}/system-monitor/compact-flash/threshold

Specifies thresholds for the compact flash device.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
        <compact-flash>
            <threshold>
                <marginal-threshold>1</marginal-threshold>
                <down-threshold>0</down-threshold>
            </threshold>
        </compact-flash>
    </system-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

marginal-threshold

Specifies an integer value that, when exceeded, indicates when hardware is operating marginally

down-threshold

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

rbridge-id/{rbridge-number}/system-monitor/fan/alert

Specifies alerts for the fans.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
        <fan>
            <alert>
                <state>removed</state>
                <action>raslog</action>
            </alert>
        </fan>
    </system-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

action

Specifies the response type

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

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

rbridge-id/{rbridge-number}/system-monitor/fan/threshold

Specifies thresholds for the fans.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
        <fan>
            <threshold>
                <marginal-threshold>1</marginal-threshold>
                <down-threshold>2</down-threshold>
            </threshold>
        </fan>
    </system-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

marginal-threshold

Specifies an integer value that, when exceeded, indicates when hardware is operating marginally

down-threshold

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

rbridge-id/{rbridge-number}/system-monitor/power/alert

Specifies alerts for the power supplys.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
        <power>
            <alert>
                <state>removed</state>
                <action>raslog</action>
            </alert>
        </power>
    </system-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

action

Specifies the response type

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

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

rbridge-id/{rbridge-number}/system-monitor/power/threshold

Specifies thresholds for the power supplys.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
        <power>
            <threshold>
                <marginal-threshold>1</marginal-threshold>
                <down-threshold>2</down-threshold>
            </threshold>
        </power>
    </system-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

marginal-threshold

Specifies an integer value that, when exceeded, indicates when hardware is operating marginally

down-threshold

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

rbridge-id/{rbridge-number}/system-monitor/sfp/alert

Specifies alerts for the small form-factor pluggable devices.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
        <sfp>
            <alert>
                <state>none</state>
                <action>none</action>
            </alert>
        </sfp>
    </system-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

action

Specifies the response type

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

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

rbridge-id/{rbridge-number}/system-monitor/temp/threshold

Specifies thresholds for the temperature sensors.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
        <temp>
            <threshold>
                <marginal-threshold>1</marginal-threshold>
                <down-threshold>2</down-threshold>
            </threshold>
        </temp>
    </system-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

marginal-threshold

Specifies an integer value that, when exceeded, indicates when hardware is operating marginally

down-threshold

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

rbridge-id/{rbridge-number}/telnet/server/shutdown

Disables Telnet service on the switch.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <telnet xmlns="urn:brocade.com:mgmt:brocade-sec-services">
        <server>
            <shutdown></shutdown>
        </server>
    </telnet>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

shutdown

Disables Telnet service on the switch

rbridge-id/{rbridge-number}/telnet/server/standby

Enables the Telnet services on the standby MM.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <telnet xmlns="urn:brocade.com:mgmt:brocade-sec-services">
        <server>
            <standby>
                <enable></enable>
            </standby>
        </server>
    </telnet>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

enable

Enables the Telnet services on the standby MM

rbridge-id/{rbridge-number}/telnet/server/use-vrf

Configures VRF

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <telnet xmlns="urn:brocade.com:mgmt:brocade-sec-services">
        <server>
            <telnet-vrf-cont>
                <use-vrf>
                    <use-vrf-name>vrf1</use-vrf-name>
                </use-vrf>
            </telnet-vrf-cont>
        </server>
    </telnet>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

use-vrf-name

Specifies VRF name

History

Release version	History
7.0.0	This Netconf call was introduced.

rbridge-id/{rbridge-number}/threshold-monitor/cpu

Configures monitoring of CPU usage of the system and alerts the user when configured thresholds are exceeded.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
        <Cpu>
            <poll>121</poll>
            <retry>4</retry>
            <limit>75</limit>
            <actions>none</actions>
        </Cpu>
    </threshold-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

poll

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

retry

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

limit

Specifies the baseline CPU usage limit as a percentage of available resources. The value can range from 0 through 80 percent. The default value is 70 percent

actions

Specifies the action to be taken when a threshold is exceeded

none

No action is taken

raslog

Specifies RASLog messaging

rbridge-id/{rbridge-number}/threshold-monitor/interface/apply

Applies a custom policy that has been created by the policy operand

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>9</rbridge-id>
    <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
        <interface>
            <apply>custom</apply>
        </interface>
    </threshold-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

apply

Specifies the custom policy name

rbridge-id/{rbridge-number}/threshold-monitor/interface/pause

Pauses monitoring of port statistics on all external gigabit Ethernet interfaces: 1 GbE, 10 GbE, and 40 GbE.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
        <interface>
            <pause></pause>
        </interface>
    </threshold-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

pause

Pauses monitoring of port statistics

rbridge-id/{rbridge-number}/threshold-monitor/interface/policy

Specifies a policy name for monitoring by means of custom settings, rather than default settings. A policy name is required before additional configurations can be made. This operation is not supported from a secondary node.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>7</rbridge-id>
    <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
        <interface>
            <policy>
                <policy_name>custom</policy_name>
                <area>
                    <type>Ethernet</type>
                    <area_value>CRCAlignErrors</area_value>
                    <alert>
                        <above>
                            <above-highthresh-action>raslog</above-highthresh-action>
                        </above>
                    </alert>
                </area>
            </policy>
        </interface>
    </threshold-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

policy_name

Specifies the name of a custom policy configuration that can be saved and applied

type

Enables gigabit Ethernet interface monitoring

area_value

Enables policy configuration

CRCAlignErrors

The total number of frames received with either a bad Frame Check Sequence (FCS) or an alignment error

IFG

The minimum-length interframe gap (IFG) between successive frames is violated. The typical minimum IFG is 12 bytes

MissingTerminationCharacter

The number of frames that terminate in anything other than the Terminate character

SymbolErrors

The number of words received as an unknown (invalid) symbol. Large symbol errors indicate a bad device, cable, or hardware

alert

Specifies whether an alert is sent when a threshold value is either above or below a threshold trigger

above

Enables setting a value for **highthresh-action**, which specifies the action to be taken when a high threshold is exceeded

below

Enables setting a value for **highthresh-action** and **lowthresh-action**, which specifies the action to be taken when a low threshold is exceeded

above-highthresh-action

Specifies the action to be taken when a high threshold is exceeded

all

Specifies that email and RASLog messaging are used, and that Port Fencing is applied in the case of highthresh-action only

email

Specifies that an email message is sent

fence

Specifies that Port Fencing is applied, which disables the port until further action is taken This is available only for **highthresh-action**

none

Specifies that no alert notification or other action (Port Fencing) is taken

raslog

Specifies RASLog messaging

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

Configures monitoring of the memory usage of the system and alerts the user when configured thresholds are exceeded.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
        <Memory>
            <poll>121</poll>
            <retry>4</retry>
            <limit>65</limit>
            <high-limit>75</high-limit>
            <low-limit>45</low-limit>
            <actions>none</actions>
        </Memory>
    </threshold-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

poll

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

retry

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

limit

Specifies the baseline memory usage limit as a percentage of available resources. The value can range from 0 through 80 percent. The default value is 60 percent

high-limit

Specifies an upper limit for memory usage as a percentage of available memory. The value can range from 0 through 80 percent. The default value is 70 percent

low-limit

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

actions

Specifies the action to be taken when a threshold is exceeded

none

No action is taken. This is the default

raslog

Specifies RASLog messaging

rbridge-id/{rbridge-number}/threshold-monitor/security/apply

Applies a custom policy that has been created by the **policy** operand

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>9</rbridge-id>
    <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
        <security>
            <apply>custom</apply>
        </security>
    </threshold-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

apply

Specifies thr name of a custom policy configuration created by the **policy** operand

rbridge-id/{rbridge-number}/threshold-monitor/security/pause

Pauses monitoring of security parameters, such as Telnet and login violations.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
        <security>
            <pause></pause>
        </security>
    </threshold-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

pause

Pauses monitoring

rbridge-id/{rbridge-number}/threshold-monitor/security/policy

Specifies a policy name for monitoring by means of custom settings, rather than default settings. A policy name is required before additional configurations can be made. This operation is not supported from a secondary node.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>9</rbridge-id>
    <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
        <security>
            <policy>
                <sec_policy_name>custom</sec_policy_name>
                <area>
                    <sec_area_value>login-violation</sec_area_value>
                    <timebase>minute</timebase>
                    <alert>
                        <above>
                            <sec-above-highthresh-action>raslog</sec-above-highthresh-action>
                        </above>
                    </alert>
                </area>
            </policy>
        </security>
    </threshold-monitor>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

sec_policy_name
: Specifies the name of a custom policy

sec_area_value
: Enables policy configuration

login-violation
: Enables monitoring of login violations

alert
: Specifies whether an alert is sent when a threshold value is either above or below a threshold trigger

above
: Enables setting a value for **highthresh-action**, which specifies the action to be taken when a high threshold is exceeded

below
: Enables setting a value for **highthresh-action** and **lowthresh-action**, which specifies the action to be taken when a low threshold is exceeded

timebase
: Calculates differences between current and previous data taken over a variety of intervals, for comparison against the preset threshold boundary

day
Calculates the difference between a current data value and that value a day ago

hour
Calculates the difference between a current data value and that value an hour ago

minute
Calculates the difference between a current data value and that value a minute ago

none
Compares a data value to a threshold boundary level

telnet-violation
Enables monitoring of Telnet violations. Operands are as for **login-violation**

sec-above-highthresh-action
Specifies the action to be taken when a high threshold is exceeded

all
Specifies that email and RASLog messaging are used, and that Port Fencing is applied in the case of highthresh-action only

email
Specifies that an email message is sent

fence
Specifies that Port Fencing is applied, which disables the port until further action is taken This is available only for **highthresh-action**

none
Specifies that no alert notification or other action (Port Fencing) is taken

raslog
Specifies RASLog messaging

rbridge-id/{rbridge-number}/threshold-monitor/sfp/apply

Applies a custom policy that has been created by the **policy** operand.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>7</rbridge-id>
    <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
        <sfp>
            <apply>custom</apply>
        </sfp>
    </threshold-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

apply

Specifies the name of a custom policy configuration created by the **policy** operand

rbridge-id/{rbridge-number}/threshold-monitor/sfp/pause

Pauses monitoring of SFP parameters.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
        <sfp>
            <pause></pause>
        </sfp>
    </threshold-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

pause

Pauses monitoring

rbridge-id/{rbridge-number}/threshold-monitor/sfp/policy

Specifies a policy name for monitoring by means of custom settings, rather than default settings. A policy name is required before additional configurations can be made. This operation is not supported from a secondary node.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>9</rbridge-id>
    <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
        <sfp>
            <policy>
                <policy_name>custom</policy_name>
                <area>
                    <type>10GLR</type>
                    <area_value>Temperature</area_value>
                    <alert>
                        <above>
                            <above-highthresh-action>raslog</above-highthresh-action>
                        </above>
                    </alert>
                </area>
            </policy>
        </sfp>
    </threshold-monitor>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

policy_name

Specifies the name of a custom policy

type

Specifies the SFP type. Possible completions are as follows

1GLR

— SFP Type 1GLR

1GSR

— SFP Type 1GSR

10GLR

— SFP Type 10GLR

10GSR

— SFP Type 10GSR

10GUSR

— SFP Type 10GUSR

100GSR

— SFP Type 100GSR

QSFP

— SFP type QSFP

area_value

Specifies one of the following SFP parameters to be monitored. See Defaults, below

Current

Measures the current supplied to the SFP transceiver

RXP

Measures the incoming laser power, in microWatts (µW)

TXP

Measures the outgoing laser power, in (µW).

Temperature

Measures the temperature of the SFP, in degrees Celsius

Voltage

Measures the voltage supplied to the SFP

above-highthresh-action

Specifies the action to be taken when a high threshold is exceeded

all

Specifies that email and RASLog messaging are used, and that Port Fencing is applied in the case of highthresh-action only

email

Specifies that an email message is sent

fence

Specifies that Port Fencing is applied, which disables the port until further action is taken This is available only for **highthresh-action**

none

Specifies that no alert notification or other action (Port Fencing) is taken

raslog

Specifies RASLog messaging

rbridge-id/{rbridge-number}/vcs/auto-shut/lag

Enables auto-shut of LAG in case of fabric segmentation.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vcs xmlns="http://brocade.com/ns/brocade-auto-shut-edge-port">
        <auto-shut>
            <lag></lag>
        </auto-shut>
    </vcs>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

lag

Enables auto-shut of LAG

rbridge-id/{rbridge-number}/vrf

Creates Virtual Routing and Forwarding (VRF) configuration mode.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>red</vrf-name>
    </vrf>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf-name

Specifies the VRF name

rbridge-id/{rbridge-number}/vrf/address-family/ipv4/unicast

Enables the IPv4 address-family VRF unicast routing options.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>Red</vrf-name>
        <address-family>
            <ip>
                <unicast></unicast>
            </ip>
        </address-family>
    </vrf>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf-name

Specifies the VRF name

unicast

Enables the IPv4 address-family VRF unicast routing option

rbridge-id/{rbridge-number}/vrf/address-family/ipv4/unicast/arp

Enables specification of an IPv4 address for an Address Resolution Protocol (ARP) entry.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>red</vrf-name>
        <address-family>
            <ip>
                <unicast>
                    <arp-entry xmlns="urn:brocade.com:mgmt:brocade-arp">
                        <arp-ip-address>1.1.1.1</arp-ip-address>
                        <mac-address-value>0011.1122.2233</mac-address-value>
                        <interfacename>interface</interfacename>
                        <FortyGigabitEthernet>1/0/50</FortyGigabitEthernet>
                    </arp-entry>
                </unicast>
            </ip>
        </address-family>
    </vrf>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf-name

Specifies the VRF name

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.

rbridge-id/{rbridge-number}/vrf/address-family/ipv4/unicast/ip/import/routes

Leaks IPv4 routes from one VRF to the VRF you are configuring, based on match criteria defined in route-map.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>red</vrf-name>
        <address-family>
            <ip>
                <unicast>
                    <ip xmlns="urn:brocade.com:mgmt:brocade-rtm">
                        <import>
                            <routes>
                                <src-vrf>vrf1</src-vrf>
                                <route-map>route1</route-map>
                            </routes>
                        </import>
                    </ip>
                </unicast>
            </ip>
        </address-family>
    </vrf>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf-name

Specifies the VRF name

src-vrf

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

route-map

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

rbridge-id/{rbridge-number}/vrf/address-family/ipv4/unicast/ip/route/static/bfd

Configures Bidirectional Forwarding Detection (BFD) session parameters for IP static routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>red</vrf-name>
        <address-family>
            <ip>
                <unicast>
                    <ip xmlns="urn:brocade.com:mgmt:brocade-rtm">
                        <route>
                            <static>
                                <bfd>
                                    <bfd-static-route>
                                        <bfd-static-route-dest>1.1.1.1</bfd-static-route-dest>
                                        <bfd-static-route-src>10.10.10.10</bfd-static-route-src>
                                        <bfd-interval-attributes>
                                            <interval>55</interval>
                                            <min-rx>55</min-rx>
                                            <multiplier>4</multiplier>
                                        </bfd-interval-attributes>
                                    </bfd-static-route>
                                </bfd>
                            </static>
                        </route>
                    </ip>
                </unicast>
            </ip>
        </address-family>
    </vrf>
</rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID

vrf-name
: Specifies the VRF name

bfd-static-route-dest
: Specifies the IP address of BFD neighbor

bfd-static-route-src
: Specifies the source IP address

interval
: Specifies the interval a device waits to send a control packet to BFD peers. The value can range from 50 to 30000 milliseconds

min-rx
: Specifies the interval a device waits to receive a control packet from BFD peers. The value can range from 50 to 30000 milliseconds

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 to 50

rbridge-id/{rbridge-number}/vrf/address-family/ipv4/unicast/max-route

Sets the maximum number of routes for VRF.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>red</vrf-name>
        <address-family>
            <ip>
                <unicast>
                    <max-route>200</max-route>
                </unicast>
            </ip>
        </address-family>
    </vrf>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf-name

Specifies the VRF name

max-route

Specifies the maximum number of routes

rbridge-id/{rbridge-number}/vrf/address-family/ipv4/unicast/route-target

Imports the routes to the VRF routing table from the BGP EVPN table when the import route target matches and also exports the routes from VRF table to the BGP EVPN table with the configured export route target.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>red</vrf-name>
        <address-family>
            <ip>
                <unicast>
                    <route-target>
                        <action>export</action>
                        <target-community>2001:22</target-community>
                        <evpn></evpn>
                    </route-target>
                </unicast>
            </ip>
        </address-family>
    </vrf>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf-name

Specifies the VRF name

action

Specifies the action

both

Both imports and exports target-VPN community

export

Exports target-VPN community

Import

Imports target-VPN community

target-community

evpn

rbridge-id/{rbridge-number}/vrf/address-family/ipv6/unicast

Enables the IPv6 address-family VRF unicast routing options.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>red</vrf-name>
        <address-family>
            <ipv6>
                <unicast></unicast>
            </ipv6>
        </address-family>
    </vrf>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf-name

Specifies the VRF name

unicast

Enables the IPv6 address-family VRF unicast routing options

rbridge-id/{rbridge-number}/vrf/address-family/ipv6/unicast/ipv6/import/routes

Leaks IPv6 routes from one VRF to the VRF you are configuring, based on match criteria defined in route-map.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>red</vrf-name>
        <address-family>
            <ipv6>
                <unicast>
                    <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm">
                        <import>
                            <routes>
                                <src-vrf>green</src-vrf>
                                <route-map>route2</route-map>
                            </routes>
                        </import>
                    </ipv6>
                </unicast>
            </ipv6>
        </address-family>
    </vrf>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf-name

Specifies the VRF name

src-vrf

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

route-map

Specifies the map name to use for route-leaking match criteria

rbridge-id/{rbridge-number}/vrf/address-family/ipv6/unicast/ipv6/route/static/bfd

Configures Bidirectional Forwarding Detection (BFD) session parameters for IPv6 static routes.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>red</vrf-name>
        <address-family>
            <ipv6>
                <unicast>
                    <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm">
                        <route>
                            <static>
                                <bfd>
                                    <bfd-ipv6-static-route>
                                        <bfd-ipv6-static-route-dest>2004:384d::23:24</bfd-ipv6-static-
route-dest>
                                        <bfd-ipv6-static-route-src>2004:389d::22:21</bfd-ipv6-static-
route-src>
                                        <bfd-ipv6-interval-attributes>
                                            <interval>60</interval>
                                            <min-rx>65</min-rx>
                                            <multiplier>4</multiplier>
                                        </bfd-ipv6-interval-attributes>
                                    </bfd-ipv6-static-route>
                                </bfd>
                            </static>
                        </route>
                    </ipv6>
                </unicast>
            </ipv6>
        </address-family>
    </vrf>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf-name

Specifies the VRF name

bfd-ipv6-static-route-dest

Specifies the IPv6 address of BFD neighbor

bfd-ipv6-static-route-src

Specifies the source IPv6 address

interval

Specifies the interval a device waits to send a control packet to BFD peers. The value can range from 50 to 30000 milliseconds

min-rx

Specifies the interval a device waits to receive a control packet from BFD peers. The value can range from 50 to 30000 milliseconds

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 from 3 to 50

rbridge-id/{rbridge-number}/vrf/address-family/ipv6/unicast/max-route

Sets the maximum number of routes for VRF.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>red</vrf-name>
        <address-family>
            <ipv6>
                <unicast>
                    <max-route>500</max-route>
                </unicast>
            </ipv6>
        </address-family>
    </vrf>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf-name

Specifies the VRF name

max-route

Specifies the maximum number of routes

rbridge-id/{rbridge-number}/vrf/address-family/ipv6/unicast/route-target

Configures target VPN extended communities.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>red</vrf-name>
        <address-family>
            <ipv6>
                <unicast>
                    <route-target>
                        <action>export</action>
                        <target-community>2002:25</target-community>
                        <evpn></evpn>
                    </route-target>
                </unicast>
            </ipv6>
        </address-family>
    </vrf>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf-name

Specifies the VRF name

action

Specifies the action

both

Imports and exports target-VPN community

export

Exports target-VPN community

import

Imports target-VPN community

target-community

Specifies target VPN extended community

evpn

Enables EVPN route target

rbridge-id/{rbridge-number}/vrf/address-family/ipv6/unicast/vrf/listen-range/peer-group/limit

Limits the listen range for a address family peer group.

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
            <rbridge-id>9</rbridge-id>
            <router>
               <router-bgp xmlns=""urn:brocade.com:mgmt:brocade-bgp"">
              </router-bgp>
               <address-family>
                  <ipv4>
                     <ipv4-unicast>
                        <af-vrf>
                           <af-vrf-name>v1</af-vrf-name>
                           <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>
                        </af-vrf>
                     </ipv4-unicast>
                  </ipv4>
               </address-family>
            </router>
         </rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID.

af-vrf-name

Specfies the address family VRF name.

listen-range-prefix

Specifies the listen range prefix.

peer-group

Specifies the peer group name.

limit

Specifies the limit.

History

Release version	History
7.1.0	This NETCONF 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 exported.

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
            <rbridge-id>9</rbridge-id>
            <vrf xmlns=""urn:brocade.com:mgmt:brocade-vrf"">
               <vrf-name>brocade</vrf-name>
               <address-family>
                  <ip>
                     <unicast>
                        <export>
                           <map-export>rm1</map-export>
                           <evpn-export></evpn-export>
                        </export>
                     </unicast>
                  </ip>
               </address-family>
            </vrf>
         </rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID.

vrf-name
: Specifies the VRF name.

address-family
: Enters address family command mode.

ip
: Configures VRF-specific IP commands.

unicast
: Specifies the IPv4 unicast address family.

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

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

evpn-export
: Filters routes from the EVPN.

History

Release version	History
7.1.0	This NETCONF 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.

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
            <rbridge-id>9</rbridge-id>
            <vrf xmlns=""urn:brocade.com:mgmt:brocade-vrf"">
               <vrf-name>brocade</vrf-name>
               <address-family>
                  <ip>
                     <unicast>
                        <import>
                           <map-import>rm1</map-import>
                           <evpn-import></evpn-import>
                        </import>
                     </unicast>
                  </ip>
               </address-family>
            </vrf>
         </rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID.

vrf-name
: Specifies the VRF name.

address-family
: Enters address family command mode.

ip
: Configures VRF-specific IPv4 commands.

unicast
: Specifies the IPv4 unicast address family.

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

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

evpn-import
: Filters routes from the EVPN.

History

Release version	History
7.1.0	This NETCONF call was introduced.

rbridge-id/{rbridge-number}/vrf/ip/router-id

Configures router ID.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>red</vrf-name>
        <ip>
            <vrf-router-id>1.1.1.1</vrf-router-id>
        </ip>
    </vrf>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf-name

Specifies the VRF name

vrf-router-id

Specifies the IPv4 address that you want as the router ID

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

Filters IPv6 routes from Ethernet VPN (EVPN).

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
            <rbridge-id>9</rbridge-id>
            <vrf xmlns=""urn:brocade.com:mgmt:brocade-vrf"">
               <vrf-name>brocade</vrf-name>
               <address-family>
                  <ipv6>
                     <unicast>
                        <export>
                           <map-export>rm1</map-export>
                           <evpn-export></evpn-export>
                        </export>
                     </unicast>
                  </ipv6>
               </address-family>
            </vrf>
         </rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID.

vrf-name
: Specifies the VRF name.

address-family
: Enter address family command mode.

ipv6
: Configures VRF-specific IPv6 commands.

unicast
: Specifies the IPv6 unicast address family.

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

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

evpn-export
: Filters routes from the EVPN.

History

Release version	History
7.1.0	This NETCONF 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 exported.

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
            <rbridge-id>9</rbridge-id>
            <vrf xmlns=""urn:brocade.com:mgmt:brocade-vrf"">
               <vrf-name>brocade</vrf-name>
               <address-family>
                  <ipv6>
                     <unicast>
                        <import>
                           <map-import>rm1</map-import>
                           <evpn-import></evpn-import>
                        </import>
                     </unicast>
                  </ipv6>
               </address-family>
            </vrf>
         </rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID.

vrf-name
: Specifies the VRF name.

address-family
: Enters address family command mode.

ipv6
: Configures VRF-specific IPv6 commands.

unicast
: Specifies the IPv6 unicast address family.

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

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

evpn-import
: Filters routes from the EVPN.

History

Release version	History
7.1.0	This NETCONF 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.

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
            <rbridge-id>9</rbridge-id>
            <vrf xmlns=""urn:brocade.com:mgmt:brocade-vrf"">
               <vrf-name>brocade</vrf-name>
               <address-family>
                  <ip>
                     <unicast>
                        <import>
                           <map-import>rm1</map-import>
                           <evpn-import></evpn-import>
                        </import>
                     </unicast>
                  </ip>
               </address-family>
            </vrf>
         </rbridge-id>
```

Parameters

rbridge-id
Specifies the RBridge ID.

vrf-name
Specifies the VRF name.

address-family
Enters address family command mode.

ip
Configures VRF-specific IPv4 commands.

unicast
Specifies the IPv4 unicast address family.

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

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

evpn-import
Filters routes from the EVPN.

History

Release version	History
7.1.0	This NETCONF call was introduced.

rbridge-id/{rbridge-number}/vrf/mgmt-vrf

Configures routes on a management VRF port.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>mgmt-vrf</vrf-name>
    </vrf>
</rbridge-id>
```

Parameters

vrf-name

Specifies the VRF name

rbridge-id/{rbridge-number}/vrf/rd

Distinguishes a route for VRF.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>red</vrf-name>
        <route-distiniguisher>2:1</route-distiniguisher>
    </vrf>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf-name

Specifies the VRF name

route-distiniguisher

Specifies the ASN number

rbridge-id/{rbridge-number}/vrf/vni

Configures Layer 3 VNI for VXLAN routing.

Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
    <rbridge-id>1</rbridge-id>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
        <vrf-name>red</vrf-name>
        <vni>500</vni>
    </vrf>
</rbridge-id>
```

Parameters

rbridge-id

Specifies the RBridge ID

vrf-name

Specifies the VRF name

vni

Specifies Layer 3 VNI number. The value can range from 1 through 16777215

reserved-vlan

Sets the range of VLANs for internal purposes.

Usage

```
<reserved-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
    <reserved-vlan-start>1550</reserved-vlan-start>
    <reserved-vlan-end>1650</reserved-vlan-end>
</reserved-vlan>
```

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

rmon/alarm

Configures Remote Monitoring Protocol (RMON) alarm.

Usage

```
<rmon xmlns="urn:brocade.com:mgmt:brocade-rmon">
    <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>195</alarm-rising-threshold>
        <alarm-rising-event-index>25</alarm-rising-event-index>
        <alarm-falling-threshold>95</alarm-falling-threshold>
        <alarm-falling-event-index>27</alarm-falling-event-index>
        <alarm-owner>john_smith</alarm-owner>
    </alarm-entry>
</rmon>
```

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.

absolute
: Sample type absolute.

delta
: Sample type 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.

rmon/event

Configures Remote Monitoring Protocol (RMON) event.

Usage

```
<rmon xmlns="urn:brocade.com:mgmt:brocade-rmon">
    <event-entry>
        <event-index>23</event-index>
        <event-description>event1</event-description>
        <log></log>
        <event-community>default</event-community>
        <event-owner>owner1</event-owner>
    </event-entry>
</rmon>
```

Parameters

event-index

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

event-description

Specifies event description.

log

Logs the event.

event-community

Sends traps for the event.

event-owner

Specifies owner name.

role

Configures name of the role.

Usage

```
<role xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <name>
        <name>admin</name>
        <desc>Administrator</desc>
    </name>
</role>
```

Parameters

name

Specifies the name of the role

desc

Specifies the description of the role

router/fabric-virtual-gateway

Configures router Fabric-Virtual-Gateway.

Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">
    <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway"></fabric-virtual-
gateway>
</router>
```

Parameters

fabric-virtual-gateway

Enables Fabric-Virtual-Gateway

router/fabric-virtual-gateway/address-family/ipv4

Enables IPv4 anycast gateway.

Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">
    <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
        <address-family>
            <ipv4>
                <enable_global></enable_global>
            </ipv4>
        </address-family>
    </fabric-virtual-gateway>
</router>
```

Parameters

enable_global

Enables IPv4 anycast gateway

router/fabric-virtual-gateway/address-family/ipv4/accept-unicast-arp-request

Enables accept unicast ARP request for IPv4 anycast gateway.

Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">
    <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
        <address-family>
            <ipv4>
                <accept-unicast-arp-request></accept-unicast-arp-request>
            </ipv4>
        </address-family>
    </fabric-virtual-gateway>
</router>
```

Parameters

accept-unicast-arp-request

Enables accept unicast ARP request for IPv4 anycast gateway

router/fabric-virtual-gateway/address-family/ipv4/enable

Enables IPv4 anycast gateway.

Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">
    <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
        <address-family>
            <ipv4>
                <enable_global></enable_global>
            </ipv4>
        </address-family>
    </fabric-virtual-gateway>
</router>
```

Parameters

enable_global

Enables IPv4 anycast gateway

router/fabric-virtual-gateway/address-family/ipv4/gateway-mac-address

Configures gateway MAC address for ARP requests.

Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">
    <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
        <address-family>
            <ipv4>
                <gateway-mac-address>0011.1122.2233</gateway-mac-address>
            </ipv4>
        </address-family>
    </fabric-virtual-gateway>
</router>
```

Parameters

gateway-mac-address

Specifies MAC address in HHHH.HHHH.HHHH format

router/fabric-virtual-gateway/address-family/ipv4/gratuitous-arp

Configures gratuitous ARP timer.

Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">
    <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
        <address-family>
            <ipv4>
                <gratuitous-arp>
                    <timer>60</timer>
                </gratuitous-arp>
            </ipv4>
        </address-family>
    </fabric-virtual-gateway>
</router>
```

Parameters

timer

Specifies gratuitous ARP timer. TH evalue can range from 0 through 360 seconds

router/fabric-virtual-gateway/address-family/ipv6

Enables IPv6 anycast gateway.

Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">
    <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
        <address-family>
            <ipv6>
                <enable_global></enable_global>
            </ipv6>
        </address-family>
    </fabric-virtual-gateway>
</router>
```

Parameters

enable_global

Enables IPv6 anycast gateway

router/fabric-virtual-gateway/address-family/ipv6/enable

Enables IPv6 anycast gateway.

Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">
    <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
        <address-family>
            <ipv6>
                <enable_global></enable_global>
            </ipv6>
        </address-family>
    </fabric-virtual-gateway>
</router>
```

Parameters

enable_global

Enables IPv6 anycast gateway

router/fabric-virtual-gateway/address-family/ipv6/gateway-mac-address

Configures gateway MAC address for ARP requests.

Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">
    <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
        <address-family>
            <ipv6>
                <gateway-mac-address>02E2.5E00.0012</gateway-mac-address>
            </ipv6>
        </address-family>
    </fabric-virtual-gateway>
</router>
```

Parameters

gateway-mac-address

Specifies MAC address if HHHH.HHHH.HHHH format

router/fabric-virtual-gateway/address-family/ipv6/gratuitous-arp

Configures gratuitous ARP timer requests.

Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">
    <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
        <address-family>
            <ipv6>
                <gratuitous-arp>
                    <timer>40</timer>
                </gratuitous-arp>
            </ipv6>
        </address-family>
    </fabric-virtual-gateway>
</router>
```

Parameters

timer

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

rule

Configures rules.

Usage

```
<rule xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <index>10</index>
    <action>accept</action>
    <operation>read-only</operation>
    <role>role1</role>
    <command>
        <enumList>mac</enumList>
    </command>
</rule>
```

Parameters

index

Specifies index of the role. The value can range from 1 through 512

action

Specifies command action. Default action is accept

accept

reject

operation

Specifies command operation. The default operation is read-write

read-only

read-write

role

Specifies one of the existing roles

enumList

Specifies list of RBAC commands

rule/{rule-name}/action

Configures rule for a user role.

Usage

```
<rpc-reply xmlns=""urn:ietf:params:xml:ns:netconf:base:1.0"" message-id=""200"">
   <data>
      <rule xmlns=""urn:brocade.com:mgmt:brocade-aaa"">
         <index>5</index>
         <action>reject</action>
         <operation>read-write</operation>
         <role>testRole</role>
         <command>
            <enumList>no-operation</enumList>
         </command>
      </rule>
   </data>
</rpc-reply>
```

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 thecommand.

enumList

Specifies the list.

History

Release version	History
7.1.0	This NETCONF call was introduced.

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

Displays the running-config rule for a user.

Usage

```
<rpc-reply xmlns=""urn:ietf:params:xml:ns:netconf:base:1.0"" message-id=""200"">
   <data>
      <rule xmlns=""urn:brocade.com:mgmt:brocade-aaa"">
         <index>5</index>
         <action>reject</action>
         <operation>read-write</operation>
         <role>testRole</role>
         <command>
            <show-running>
               <show>
                  <show-running-config-cont></show-running-config-cont>
               </show>
            </show-running>
         </command>
      </rule>
   </data>
</rpc-reply>
```

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.

show-running

Specifies the show running command.

History

Release version	History
7.1.0	This NETCONF call was introduced.

service/password-encryption

Provides service to encrypt all clear text passwords.

Usage

```
<service xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <password-encryption></password-encryption>
</service>
```

Parameters

password-encryption

Encrypts all clear text passwords

sflow/collector

Configures sFlow collector.

Usage

```
<sflow xmlns="urn:brocade.com:mgmt:brocade-sflow">
    <collector>
        <collector-ip-address>1.1.1.1</collector-ip-address>
        <collector-port-number>50</collector-port-number>
        <use-vrf>mgmt-vrf</use-vrf>
    </collector>
</sflow>
```

Parameters

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

use-vrf

Specifies the VRF to use for sending data to the collector

History

Release version	History
7.0.0	This Netconf call was introduced.

sflow/enable

Enables sFlow globally.

Usage

```
<sflow xmlns="urn:brocade.com:mgmt:brocade-sflow">
    <enable></enable>
</sflow>
```

Parameters

enable

Enable sFlow globally

sflow/polling-interval

Configures interface counter polling interval.

Usage

```
<sflow xmlns="urn:brocade.com:mgmt:brocade-sflow">
    <polling-interval>25</polling-interval>
</sflow>
```

Parameters

polling-interval

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

sflow/sample-rate

Configures interface sampling rate.

Usage

```
<sflow xmlns="urn:brocade.com:mgmt:brocade-sflow">
    <sample-rate>32768</sample-rate>
</sflow>
```

Parameters

sample-rate

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

sflow/source-ip

Configures source IP address to use.

Usage

```
<sflow xmlns="urn:brocade.com:mgmt:brocade-sflow">
    <source-ip>chassis-ip</source-ip>
</sflow>
```

Parameters

source-ip

Specifies the source IP address to use

chassis-ip

Uses chassis IP as source address

mm-ip

Uses local MM IP as source address

sflow-profile

Configures sflow profile sampling rate.

Usage

```
<sflow-profile xmlns="urn:brocade.com:mgmt:brocade-sflow">
    <profile-name>sflow1</profile-name>
    <profile-sampling-rate>4</profile-sampling-rate>
</sflow-profile>
```

Parameters

profile-name

Specifies Sflow profile name

profile-sampling-rate

Specifies Sflow sampling rate. The value can range from 2 through 8388608

snmp-server/community

Sets the community string and associates it with the user-defined group name to restrict the access of MIB for SNMPv1 and SNMPv2 requests.

Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
    <community>
        <community>private</community>
        <groupname>group1</groupname>
        <ipv4-acl>acl15</ipv4-acl>
        <ipv6-acl>acl20</ipv6-acl>
    </community>
</snmp-server>
```

Parameters

community
: Specifies the community string

groupname
: Specifies the group name associated with the community name

ipv4-acl
: Specifies the IPv4 access-list name

ipv6-acl
: Specifies the IPv6 access-list name

snmp-server/contact

Configures contact information for the system.

Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
    <agtconfig>
        <contact>Support</contact>
        <location>End User Premise.</location>
        <sys-descr>Extreme VDX Switch.</sys-descr>
    </agtconfig>
</snmp-server>
```

Parameters

contact

Specifies identification of contact for the system

location

Specifies location of the system

sys-descr

Specifies system description

snmp-server/context

Maps the context name in an SNMPv3 packet's protocol data unit (PDU) to the name of a VPN routing and forwarding (VRF) instance.

Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
    <context>
        <context-name>cont1</context-name>
        <vrf-name>red</vrf-name>
    </context>
</snmp-server>
```

Parameters

context-name

Specifies the context name

vrf-name

Specifies the VRF name

History

Release version	History
7.0.0	This Netconf call was introduced.

snmp-server/enable

Enables or disables traps.

Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
    <enable>
        <trap>
            <trap-flag></trap-flag>
        </trap>
    </enable>
</snmp-server>
```

Parameters

trap-flag

Enables traps

snmp-server/group

Defines a user security model group.

Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
    <group>
        <group-name>group1</group-name>
        <group-version>v1</group-version>
        <group-auth-mode>noauth</group-auth-mode>
        <read>readme</read>
        <write>writeme</write>
        <notify>notifyme</notify>
    </group>
</snmp-server>
```

Parameters

group-name

Speifies the name of the group

group-version

Specifies group version

v1

v1 group using the v1 security model

v2c

v2c group using the v2c security model

v3

v3 group using the v3 security model

group-auth-mode

Specifies the authorization mode

read

Specifies a read view for the group

write

Specifies the write view for the group

notify

Specifies notify view name

snmp-server/host

Configures the SNMP trap server host attributes.

Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
    <host>
        <ip>1.1.1.1</ip>
        <community>comm1</community>
        <version>1</version>
        <udp-port>160</udp-port>
        <severity-level>Info</severity-level>
        <use-vrf>mgmt-vrf</use-vrf>
        <source-interface>
            <ve>1</ve>
        </source-interface>
    </host>
</snmp-server>
```

Parameters

ip
: Specifies host IP address

community
: Specifies the community string associated with the host entry

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

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.

use-vrf
: Specifies a VRF though which to communicate with the SNMP host

source-interface
: Specifies the interface IP address to be used as a source address for traps

  ve
  : Specifies the VE interface number to be used

  loopback
  : Specifies the Loopback interface number to be used

History

Release version	History
7.0.0	This Netconf call was introduced.

snmp-server/location

Configures location of the system.

Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
    <agtconfig>
        <location>building</location>
    </agtconfig>
</snmp-server>
```

Parameters

location

Specifies system location

snmp-server/mib/community-map

Maps an SNMP community string to an SNMP context.

Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
    <mib>
        <community-map>
            <community>public</community>
            <context>ctxtA</context>
        </community-map>
    </mib>
</snmp-server>
```

Parameters

community

Specifies an SNMP community name

context

Specifies an SNMP context

History

Release version	History
7.0.0	This Netconf call was introduced.

snmp-server/sys-descr

Configures description of the system.

Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
    <agtconfig>
        <sys-descr>Extreme VDX Switch.</sys-descr>
    </agtconfig>
</snmp-server>
```

Parameters

sys-descr

Specifies system description

snmp-server/user

Configures SNMP user.

Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
    <user>
        <username>user1</username>
        <groupname>group1</groupname>
        <ipv4-acl>acl1</ipv4-acl>
        <ipv6-acl>acl12</ipv6-acl>
        <auth>noauth</auth>
        <auth-password></auth-password>
        <priv>nopriv</priv>
        <priv-password></priv-password>
    </user>
</snmp-server>
```

Parameters

username
: Specifies username associated with V3 notification type

groupname
: Specifies groupname associated with username

ipv4-acl
: Specifies IPv4 access list name

ipv6-acl
: Specifies IPv6 access list name

auth
: Specifies authorization protocol for username

md5
: HMAC-MD5-96 is an authentication protocol uses md5 message digest alogorithm for digest computation

noauth
: Removes authentication

sha
: HMAC-SHA-96 is an authentication protocol uses secure hash alogorithm sha for digest computation

auth-password
: Specifies authorization password associated with the username

priv
: Specifies privacy protocol for username

priv-password
: Speciffies privacy password associated with username

snmp-server/v3host

Configures SNMP server V3host parameters.

Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
    <v3host>
        <hostip>20.20.1.1</hostip>
        <username>user1</username>
        <udp-port>158</udp-port>
        <notifytype>informs</notifytype>
        <engineid>00:00:00:00:00:00</engineid>
        <severity-level>Info</severity-level>
        <use-vrf>mgmt-vrf</use-vrf>
        <source-interface>
            <ve>1</ve>
        </source-interface>
    </v3host>
</snmp-server>
```

Parameters

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

username
: Specifies the SNMPv3 user name to be associated with the SNMPv3 host entry

udp-port
: Specifies the UDP port of the host. The default UDP port number is 162

notifytype
: Specifies the type of notification traps that are sent for the host. Traps and informs are supported. The default notify type is traps

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

source-interface
: Specifies the interface IP address to be used as a source address for traps

  ve
  : Specifies the VE interface number to be used

  loopback
  : Specifies the Loopback interface number to be used

History

Release version	History
7.0.0	This Netconf call was introduced.

snmp-server/view

Defines an SNMPv2 MIB view.

Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
    <view>
        <viewname>all</viewname>
        <mibtree>1</mibtree>
        <mibtree-access>included</mibtree-access>
    </view>
</snmp-server>
```

Parameters

viewname
: Specifies view name

mibtree
: Sopecifes MIB subtree

mibtree-access
: Specifies MIB tree access

excluded
: MIB subtree is excluded in the view

included
: MIB subtree is included in the view

spanning-tree/ieee-bpdu

Configure flooding limits of IEEE BPDU.

Usage

```
<spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp" xmlns:y="http://brocade.com/ns/rest" y:self="/
rest/config/running/rbridge-id/2/spanning-tree">
  <ieee-bpdu y:self="/rest/config/running/rbridge-id/2/spanning-tree/ieee-bpdu">
    <limit-vlan-flood>true</limit-vlan-flood>
  </ieee-bpdu>
</spanning-tree>
```

Parameters

limit-vlan-flood

Limits flooding of IEEE BPDU within same VLAN

History

Release version	History
7.0.1	This Netconf call was introduced.

support/autoupload

Enables autoupload operation.

Usage

```
<support xmlns="urn:brocade.com:mgmt:brocade-ras">
    <autoupload>
        <enable></enable>
    </autoupload>
</support>
```

Parameters

enable

Enables autoupload operation

support/autoupload-param

Configures autoupload parameters.

Usage

```
<support xmlns="urn:brocade.com:mgmt:brocade-ras">
    <autoupload-param>
        <hostip>127.0.0.1</hostip>
        <username>user1</username>
        <directory>c:</directory>
        <protocol>scp</protocol>
        <password>G7g06iCnkZtPfF3iBjI4Yg==</password>
    </autoupload-param>
</support>
```

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

scp

sftp

ftp

password

Specifies the password to access the remote host

support/ffdc

Enables FFDC file generation.

Usage

```
<support xmlns="urn:brocade.com:mgmt:brocade-ras">
    <ffdc></ffdc>
</support>
```

Parameters

ffdc

Enables FFDC file generation

support/support-param

Configures copy support parameters.

Usage

```
<support xmlns="urn:brocade.com:mgmt:brocade-ras">
    <support-param>
        <hostip>1.1.1.1</hostip>
        <username>user</username>
        <directory>c:</directory>
        <protocol>ftp</protocol>
        <password>G7g06iCnkZtPfF3iBjI4Yg==</password>
    </support-param>
</support>
```

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

ftp

scp

sftp

password

Specifies the password to access the remote host

switch-attributes

Configures switch attributes.

Usage

```
<system xmlns="urn:brocade.com:mgmt:brocade-ras">
    <switch-attributes>
        <rbridge-id>
            <rbridge-id>1</rbridge-id>
            <chassis-name>VDX6740</chassis-name>
            <host-name>sw1</host-name>
        </rbridge-id>
    </switch-attributes>
</system>
```

Parameters

rbridge-id

Specifies the RBridge ID

chassis-name

Specifies the chassis name.

host-name

Specifies the host name

system-monitor-mail/fru (email)

Configures e-mail address for FRU alerts.

Usage

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <fru>
        <email-list>
            <email>abc@brocade.com</email>
        </email-list>
    </fru>
</system-monitor-mail>
```

Parameters

email

Specifies e-mail address for FRU alerts

system-monitor-mail/fru/enable

Enables FRU e-mail alerts.

Usage

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <fru>
        <enable></enable>
    </fru>
</system-monitor-mail>
```

Parameters

enable

Enables FRU e-mail alerts

system-monitor-mail/interface (email)

Configures e-mail address for interface alerts.

Usage

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <interface>
        <email-list>
            <email>abc@brocade.com</email>
        </email-list>
    </interface>
</system-monitor-mail>
```

Parameters

email

Specifies e-mail address for interface alerts

system-monitor-mail/interface/enable

Enables interface e-mail alerts.

Usage

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <interface>
        <enable></enable>
    </interface>
</system-monitor-mail>
```

Parameters

enable

Enables interface e-mail alerts

system-monitor-mail/relay

Configures relay IP mail settings.

Usage

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <relay>
        <host-ip>1.1.1.1</host-ip>
        <domain-name>domain1</domain-name>
    </relay>
</system-monitor-mail>
```

Parameters

host-ip

Specifies host IP address

domain-name

Specifies domain server name

system-monitor-mail/security (email)

Configures e-mail address for security alerts.

Usage

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <security>
        <email-list>
            <email>abc@brocade.com</email>
        </email-list>
    </security>
</system-monitor-mail>
```

Parameters

email

Specifies e-mail address for security alerts

system-monitor-mail/security/enable

Enables security e-mail alerts.

Usage

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <security>
        <enable></enable>
    </security>
</system-monitor-mail>
```

Parameters

enable

Enables security e-mail alerts

system-monitor-mail/sfp (email)

Configures e-mail address for SFP alerts.

Usage

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <sfp>
        <email-list>
            <email>abc@brocade.com</email>
        </email-list>
    </sfp>
</system-monitor-mail>
```

Parameters

email

Specifies e-mail address for SFP alerts

system-monitor-mail/sfp/enable

Enables sfp e-mail alerts.

Usage

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <sfp>
        <enable></enable>
    </sfp>
</system-monitor-mail>
```

Parameters

enable

Enables sfp e-mail alerts

system tunnel replicator

Disables and reenables the load balancing of broadcast, unicast, and unknown multicast (BUM) VLANs across tunnels to VMware NSX replicators.

Usage

```
<system xmlns="urn:brocade.com:mgmt:brocade-tunnels" xmlns:y="http://brocade.com/ns/rest" y:self="/rest/
config/running/system">
  <tunnel y:self="/rest/config/running/system/tunnel">
    <replicator y:self="/rest/config/running/system/tunnel/replicator">
      <load-balance>true</load-balance>
    </replicator>
  </tunnel>
</system>
```

Parameters

load-balance

Configures load balancing of BUM traffic.

History

Release version	History
7.0.1	This Netconf call was introduced.

tacacs-server/host

Configures a Terminal Access Controller Access-Control System plus (TACACS+) server.

Usage

```
<tacacs-server xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <host>
        <hostname>12.12.12.12</hostname>
        <use-vrf>mgmt-vrf</use-vrf>
        <port>50</port>
        <protocol>chap</protocol>
        <key>sharedsecret</key>
        <encryption-level>0</encryption-level>
        <retries>6</retries>
        <timeout>10</timeout>
    </host>
</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

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

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 must be between 8 and 40 characters in length. The default key is **sharedsecret**

encryption-level

Specifies the level of encryption of the key

0

Specifies the text in clear text format

7

Specifies the text in encrypted format

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

History

Release version	History
7.0.0	This Netconf call was modified to include the parameter *use-vrf*

tacacs-server/source-ip

Configures the source IP to be used for TACACS+.

Usage

```
<tacacs-server xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <tacacs-source-ip>chassis-ip</tacacs-source-ip>
</tacacs-server>
```

Parameters

tacacs-source-ip

Specifies the source IP to be used for TACACS+. Source IP can be used from

chassis-ip

Uses shassis IP as source address

mm-ip

Uses local MM IP as source address

username

Configures local users.

Usage

```
<username xmlns="urn:brocade.com:mgmt:brocade-aaa">
    <name>admin</name>
    <user-password>BwrsDbB+tABWGWpINOVKoQ==</user-password>
    <encryption-level>7</encryption-level>
    <role>admin</role>
    <desc>Administrator</desc>
    <enable>true</enable>
    <expire>never</expire>
 <access-time>0000</access-time>
 <end-time>0059</end-time>
</username>
```

Parameters

name
: Specifies the user name

user-password
: Speciffies the password of the user

encryption-level
: Specifies the level of encryption of the password

  0
  : Sets the password as CLEAR-TEXT

  7
  : Sets the password as encrypted

role
: Specifies the role of the user

desc
: Specifies the account description

enable
: Enables or disables the user account

  true
  : Enables the user account. Default value is set to true.

  false
  : Disables user account

expire
: Specifies the date until when the password will remain valid after being updated. The default value is set to "never"

access-time
: Granting user access for configured time period from

end-time
: Specifies the end time for the user's session.

History

Release version	History
7.0.1	Added the **access-time** and **end-time** keywords.

vcenter

Authenticates with an established vCenter and provides additional options.

Usage

```
<rpc-reply xmlns=""urn:ietf:params:xml:ns:netconf:base:1.0"" message-id=""200"">
   <data>
      <vcenter xmlns=""urn:brocade.com:mgmt:brocade-vswitch"">
         <id>VC12345678919991997 28</id>
         <credentials>
            <url>http://10.1.1.1</url>
            <username>user1</username>
            <password>9+PNFP2NLTDJErlQ5kaoif5WtZDPDbnB22rrfqeBbpY=
</password>
         </credentials>
      </vcenter>
   </data>
</rpc-reply>
```

Parameters

id
: Specifies the vcenter ID.

credentials
: Specifies the credentials.

url
: Specifies the URL.

username
: Specifies the username.

password
: Specifies the password.

History

Release version	History
7.1.0	This NETCONF call was introduced.

vcenter/{vcenter-name}/activate

Activates vCenter discovery.

Usage

```
<vcenter xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <id>myvcenter</id>
    <activate></activate>
</vcenter>
```

Parameters

id

Specifies the vCenter name

activate

Activates vCenter discovery

vcenter/{vcenter-name}/discovery

Usage

```
<vcenter xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <id>myvcenter</id>
    <discovery>
        <ignore-delete-all-response>
            <always></always>
        </ignore-delete-all-response>
    </discovery>
</vcenter>
```

Parameters

id

Specifies vCenter name

always

Always ignore delete-all from vcenter

vcenter/{vcenter-name}/interval

Configures discovery timer interval.

Usage

```
<vcenter xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <id>myvcenter</id>
    <interval>25</interval>
</vcenter>
```

Parameters

id

Specifies vCenter name

interval

Specifies discovery timer interval in minutes. The interval can range from 0 through 1440. The default interval is set to 30 minutes

vcenter/{vcenter-name}/url

Configures vCenter server URL.

Usage

```
<vcenter xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <id>myvcenter</id>
    <credentials>
        <url>https://vcenter_profile</url>
        <username>user1</username>
        <password>u96LcuRn5qEJyZxmhdeZGg==</password>
    </credentials>
</vcenter>
```

Parameters

id

Specifies vCenter name

url

Specifies vCenter server URL

username

Specifies the user name

password

Specifies the user password

vcs/virtual/ip

Assigns a single virtual IP address to all switches in an Extreme VCS Fabric.

Usage

```
<vcs xmlns="urn:brocade.com:mgmt:extreme-vcs">
    <virtual>
        <ip>
            <address>
                <address>10.25.224.100/24</address>
            </address>
        </ip>
    </virtual>
</vcs>
```

Parameters

address

Specifies the IP address in IPv4 format by means of a CIDR prefix (mask)

vcs/virtual/ipv6

Assigns a single virtual IPv6 address to all switches in a Extreme VCS Fabric.

Usage

```
<vcs xmlns="urn:brocade.com:mgmt:brocade-vcs">
    <virtual>
        <ipv6>
            <address>
                <ipv6address>2004:384d::23:24/64</ipv6address>
            </address>
        </ipv6>
    </virtual>
</vcs>
```

Parameters

ipv6address

Specifies the IP address in IPv6 format by means of a CIDR prefix (mask)

vcs/virtual-fabric

Enables VCS virtual fabric configuration.

Usage

```
<vcs xmlns="urn:brocade.com:mgmt:brocade-vcs">
    <virtual-fabric>
        <vfab-enable></vfab-enable>
    </virtual-fabric>
</vcs>
```

Parameters

vfab-enable>

Enables VCS virtual fabric configuration

vlag-commit-mode/disable

Disables the virtual LAG (vLAG) commit mode for dynamic vLAGs. The command also disables the actor and partner SID selection operations.

Usage

```
<vlag-commit-mode xmlns="urn:brocade.com:mgmt:brocade-lacp">
    <disable></disable>
</vlag-commit-mode>
```

Parameters

disable

Disables the virtual LAG (vLAG) commit mode for dynamic vLAGs

History

Release version	History
7.0.0	This Netconf call was introduced.

vlan/classifier/group

Configures VLAN classification group commands.

Usage

```
<vlan xmlns="urn:brocade.com:mgmt:brocade-vlan">
    <classifier>
        <group>
            <groupid>2</groupid>
            <oper>add</oper>
            <rule-name>rule</rule-name>
            <ruleid>2</ruleid>
        </group>
    </classifier>
</vlan>
```

Parameters

groupid

Specifies VLAN classifier group ID. The value can range from 1 through 16

oper

Specifies the operation

add

Add rule

delete

Delete rule

rule-name

Specifies VLAN classifier rule name

ruleid

Specifies VLAN classifier rule ID

vlan/classifier/rule/mac

Configures VLAN classification rule commands.

Usage

```
<vlan xmlns="urn:brocade.com:mgmt:brocade-vlan">
    <classifier>
        <rule>
            <ruleid>2</ruleid>
            <mac>
                <address>0011.1122.2233</address>
            </mac>
        </rule>
    </classifier>
</vlan>
```

Parameters

ruleid

Specifies the rule ID. The value can range from 1 through 256

address

Specifies MAC address in HHHH.HHHH.HHHH format

vlan/classifier/rule/proto

Configures the protocol to use for the VLAN classifier rule.

Usage

```
<vlan xmlns="urn:brocade.com:mgmt:brocade-vlan">
    <classifier>
        <rule>
            <ruleid>2</ruleid>
            <proto>
                <proto-val>arp</proto-val>
                <encap>ethv2</encap>
            </proto>
        </rule>
    </classifier>
</vlan>
```

Parameters

ruleid

Specifies the VLAN identification rule. The values can range from 1 through 2556

proto-val

Specifies the protocol to use for the VLAN classifier rule

hex_addr

Specifies an Ethernet hexadecimal value. The value can range from 0x0000 through 0xffff

arp

Specifies to use the Address Resolution Protocol

ip

Specifies to use the Internet Protocol

ipv6

Specifies to use the Internet Protocol version 6

encap

Specifies to encapsulate the Ethernet frames sent for the VLAN classifier rule

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

vlan/dot1q

Configures dot1q parameters.

Usage

```
<vlan xmlns="urn:brocade.com:mgmt:brocade-vlan">
    <dot1q>
        <tag>
            <native></native>
        </tag>
    </dot1q>
</vlan>
```

Parameters

native

Enables tagged behavior for native-VLANs

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

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

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
            <rbridge-id>9</rbridge-id>
            <vrf xmlns=""urn:brocade.com:mgmt:brocade-vrf"">
               <vrf-name>brocade</vrf-name>
               <address-family>
                  <ip>
                     <unicast>
                        <export>
                           <map-export>rm1</map-export>
                           <evpn-export></evpn-export>
                        </export>
                     </unicast>
                  </ip>
               </address-family>
            </vrf>
         </rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID.

vrf-name
: Specifies the VRF name.

address-family
: Enters address family command mode.

ip
: Configures VRF-specific IP commands.

unicast
: Specifies the IPv4 unicast address family.

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

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

evpn-export
: Filters routes from the EVPN.

History

Release version	History
7.1.0	This NETCONF 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.

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
            <rbridge-id>9</rbridge-id>
            <vrf xmlns=""urn:brocade.com:mgmt:brocade-vrf"">
               <vrf-name>brocade</vrf-name>
               <address-family>
                  <ip>
                     <unicast>
                        <import>
                           <map-import>rm1</map-import>
                           <evpn-import></evpn-import>
                        </import>
                     </unicast>
                  </ip>
               </address-family>
            </vrf>
         </rbridge-id>
```

Parameters

rbridge-id
Specifies the RBridge ID.

vrf-name
Specifies the VRF name.

address-family
Enters address family command mode.

ip
Configures VRF-specific IPv4 commands.

unicast
Specifies the IPv4 unicast address family.

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

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

evpn-import
Filters routes from the EVPN.

History

Release version	History
7.1.0	This NETCONF call was introduced.

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

Filters IPv6 routes from Ethernet VPN (EVPN).

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
            <rbridge-id>9</rbridge-id>
            <vrf xmlns=""urn:brocade.com:mgmt:brocade-vrf"">
               <vrf-name>brocade</vrf-name>
               <address-family>
                  <ipv6>
                     <unicast>
                        <export>
                           <map-export>rm1</map-export>
                           <evpn-export></evpn-export>
                        </export>
                     </unicast>
                  </ipv6>
               </address-family>
            </vrf>
         </rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID.

vrf-name
: Specifies the VRF name.

address-family
: Enter address family command mode.

ipv6
: Configures VRF-specific IPv6 commands.

unicast
: Specifies the IPv6 unicast address family.

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

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

evpn-export
: Filters routes from the EVPN.

History

Release version	History
7.1.0	This NETCONF 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 exported.

Usage

```
<rbridge-id xmlns=""urn:brocade.com:mgmt:brocade-rbridge"">
            <rbridge-id>9</rbridge-id>
            <vrf xmlns=""urn:brocade.com:mgmt:brocade-vrf"">
               <vrf-name>brocade</vrf-name>
               <address-family>
                  <ipv6>
                     <unicast>
                        <import>
                           <map-import>rm1</map-import>
                           <evpn-import></evpn-import>
                        </import>
                     </unicast>
                  </ipv6>
               </address-family>
            </vrf>
         </rbridge-id>
```

Parameters

rbridge-id
: Specifies the RBridge ID.

vrf-name
: Specifies the VRF name.

address-family
: Enters address family command mode.

ipv6
: Configures VRF-specific IPv6 commands.

unicast
: Specifies the IPv6 unicast address family.

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

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

evpn-import
: Filters routes from the EVPN.

History

Release version	History
7.1.0	This NETCONF call was introduced.

zoning/defined-configuration/alias

Configures list of defined zone aliases.

Usage

```
<zoning xmlns="urn:brocade.com:mgmt:brocade-zone">
    <defined-configuration>
        <alias>
            <alias-name>aliasexp1</alias-name>
            <member-entry>
                <alias-entry-name>10:00:50:eb:1a:17:3f:f1</alias-entry-name>
            </member-entry>
        </alias>
    </defined-configuration>
</zoning>
```

Parameters

alias-name

Specifies alias name

alias-entry-name

Specifies the WWN of the device to be added to the zone alias

zoning/defined-configuration/cfg

Configures list of defined CFGs.

Usage

```
<zoning xmlns="urn:brocade.com:mgmt:brocade-zone">
    <defined-configuration>
        <cfg>
            <cfg-name>cfg1</cfg-name>
            <member-zone>
                <zone-name>zone1</zone-name>
            </member-zone>
        </cfg>
    </defined-configuration>
</zoning>
```

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

zoning/defined-configuration/zone

Configures list of defined zones.

Usage

```
<zoning xmlns="urn:brocade.com:mgmt:brocade-zone">
    <defined-configuration>
        <zone>
            <zone-name>zone3</zone-name>
            <member-entry>
                <entry-name>alias3</entry-name>
            </member-entry>
        </zone>
    </defined-configuration>
</zoning>
```

Parameters

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

zoning/enabled-configuration/cfg-action

Configures CFG action entries.

Usage

```
<zoning xmlns="urn:brocade.com:mgmt:brocade-zone">
    <enabled-configuration>
        <cfg-action>cfg-none</cfg-action>
    </enabled-configuration>
</zoning>
```

Parameters

cfg-action

Specifies defined configuration action - list the supported ones

cfg-clear

Clears

cfg-disable

Disables

cfg-none

None

cfg-save

Saves

cfg-transaction-abort

Transaction abort

zoning/enabled-configuration/cfg-name

Enables CFG name.

Usage

```
<zoning xmlns="urn:brocade.com:mgmt:brocade-zone">
    <enabled-configuration>
        <cfg-name>cfg1</cfg-name>
    </enabled-configuration>
</zoning>
```

Parameters

cfg-name

Specifies the name of the zone configuration

zoning/enabled-configuration/default-zone-access

Configures default zone access.

Usage

```
<zoning xmlns="urn:brocade.com:mgmt:brocade-zone">
    <enabled-configuration>
        <default-zone-access>allaccess</default-zone-access>
    </enabled-configuration>
</zoning>
```

Parameters

default-zone-access

Specifies the default zone access

allaccess

Sets the default zone access mode to "All Access". Each device can access all other devices attached to the VCS Fabric

Noacces

Sets the default zone access mode to "No Access". No device can access any other device in the VCS Fabric

bna-config-cmd

Copies configuration data to and from the system.

Usage

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="212">
    <bna-config-cmd xmlns="urn:brocade.com:mgmt:brocade-ras">
        <src>default-config</src>
        <dest>startup-config</dest>
    </bna-config-cmd>
</rpc>


<rpc-reply message-id="212" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <session-id xmlns="urn:brocade.com:mgmt:brocade-ras">5</session-id>
    <status xmlns="urn:brocade.com:mgmt:brocade-ras">in-progress</status>
</rpc-reply>
```

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)

bna-config-cmd-status

Returns the status of the last configuration command.

Usage

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="212">
    <bna-config-cmd-status xmlns="urn:brocade.com:mgmt:brocade-ras">
        <session-id>5</session-id>
    </bna-config-cmd-status>
</rpc>

<rpc-reply message-id="212" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <status xmlns="urn:brocade.com:mgmt:brocade-ras">completed</status>
</rpc-reply>
```

Parameters

status

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

dad-status

Displays the current status of firmware download.

Usage

```
<dad-status></dad-status>
```

```
<rpc-reply message-id="1" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <dad-status 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>
</rpc-reply>
```

Parameters

index

Displays the Index number

date-and-time-info

Displays the Date and time information

message

Displays the status message

fcoe-get-interface

Returns operational state details for an FCoE interface.

Usage

```
<fcoe-intf-total-interface></fcoe-intf-total-interface>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="74">
   <fcoe-intf-total-interfaces xmlns="urn:brocade.com:mgmt:brocade-fcoe-ext">0</fcoe-intf-total-
interfaces>
</rpc-reply>
```

Parameters

fcoe-intf-total-interfaces

Displasy the the total number of interfaces whose details are being returned

fcoe-get-login

Returns the login information about FCoE end nodes that have logged in to the managed device.

Usage

```
<fcoe-get-login></fcoe-get-login>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="73">
   <fcoe-login-total-logins xmlns="urn:brocade.com:mgmt:brocade-fcoe-ext">0</fcoe-login-total-logins>
</rpc-reply>
```

Parameters

fcoe-login-total-logins

Displays the total number of devices logged in

fwdl-status

Returns the status of the firmware download operation.

Usage

```
<fwdl-status></fwdl-status>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="71">
   <fwdl-state xmlns="urn:brocade.com:mgmt:brocade-firmware">completed</fwdl-state>
   <number-of-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">24</number-of-entries>
   <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
      <index>1</index>
      <blade-name>SW/0</blade-name>
      <message-id>0</message-id>
      <date-and-time-info>2014-05-29/01:20:20</date-and-time-info>
      <message>Firmware install begins.</message>
   </fwdl-entries>
   <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
      <index>2</index>
      <blade-name>SW/0</blade-name>
      <message-id>0</message-id>
      <date-and-time-info>2014-05-29/01:23:25</date-and-time-info>
      <message>Firmware install ends.</message>
   </fwdl-entries>
   <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
      <index>3</index>
      <blade-name>SW/1</blade-name>
      <message-id>0</message-id>
      <date-and-time-info>2014-05-29/01:23:25</date-and-time-info>
      <message>Firmware install begins.</message>
   </fwdl-entries>
   <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
      <index>4</index>
      <blade-name>SW/1</blade-name>
      <message-id>0</message-id>
      <date-and-time-info>2014-05-29/01:26:27</date-and-time-info>
      <message>Firmware install ends.</message>
   </fwdl-entries>
   <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
      <index>5</index>
      <blade-name>SW/0</blade-name>
      <message-id>0</message-id>
      <date-and-time-info>2014-05-29/01:26:28</date-and-time-info>
      <message>Firmware starts to swap.</message>
   </fwdl-entries>
   <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
      <index>6</index>
      <blade-name>SW/1</blade-name>
      <message-id>0</message-id>
      <date-and-time-info>2014-05-29/01:26:28</date-and-time-info>
      <message>Firmware starts to swap.</message>
   </fwdl-entries>
   <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
      <index>7</index>
      <blade-name>SW/1</blade-name>
      <message-id>0</message-id>
      <date-and-time-info>2014-05-29/01:26:34</date-and-time-info>
      <message>Firmware is swapped.</message>
   </fwdl-entries>
   <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
      <index>8</index>
      <blade-name>SW/0</blade-name>
      <message-id>0</message-id>
      <date-and-time-info>2014-05-29/01:26:36</date-and-time-info>
      <message>Firmware is swapped.</message>
   </fwdl-entries>
```

```
<fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
   <index>9</index>
   <blade-name>SW/0</blade-name>
   <message-id>0</message-id>
   <date-and-time-info>2014-05-29/01:26:36</date-and-time-info>
   <message>Firmware is downloaded successfully.</message>
</fwdl-entries>
<fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
   <index>10</index>
   <blade-name>SW/1</blade-name>
   <message-id>0</message-id>
   <date-and-time-info>2014-05-29/01:26:37</date-and-time-info>
   <message>Firmware is downloaded successfully.</message>
</fwdl-entries>
<fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
   <index>11</index>
   <blade-name>SW/1</blade-name>
   <message-id>0</message-id>
   <date-and-time-info>2014-05-29/01:34:17</date-and-time-info>
   <message>The DB/filesystem starts shutting down.</message>
</fwdl-entries>
<fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
   <index>12</index>
   <blade-name>SW/0</blade-name>
   <message-id>0</message-id>
   <date-and-time-info>2014-05-29/01:34:17</date-and-time-info>
   <message>The DB/filesystem starts shutting down.</message>
</fwdl-entries>
<fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
   <index>13</index>
   <blade-name>SW/1</blade-name>
   <message-id>0</message-id>
   <date-and-time-info>2014-05-29/01:34:35</date-and-time-info>
   <message>The DB/filesystem has been shut down.</message>
</fwdl-entries>
<fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
   <index>14</index>
   <blade-name>SW/0</blade-name>
   <message-id>0</message-id>
   <date-and-time-info>2014-05-29/01:34:37</date-and-time-info>
   <message>The DB/filesystem has been shut down.</message>
</fwdl-entries>
<fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
   <index>15</index>
   <blade-name>SW/1</blade-name>
   <message-id>0</message-id>
   <date-and-time-info>2014-05-29/01:34:38</date-and-time-info>
   <message>The blade begins to reboot.</message>
</fwdl-entries>
<fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
   <index>16</index>
   <blade-name>SW/0</blade-name>
   <message-id>0</message-id>
   <date-and-time-info>2014-05-29/01:34:38</date-and-time-info>
   <message>The blade begins to reboot.</message>
</fwdl-entries>
<fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
   <index>17</index>
   <blade-name>SW/1</blade-name>
   <message-id>0</message-id>
   <date-and-time-info>2014-05-29/01:44:23</date-and-time-info>
   <message>The blade is rebooted.</message>
</fwdl-entries>
<fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
   <index>18</index>
   <blade-name>SW/1</blade-name>
   <message-id>0</message-id>
   <date-and-time-info>2014-05-29/01:44:23</date-and-time-info>
   <message>Firmware commit begins.</message>
</fwdl-entries>
<fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
   <index>19</index>
```

```
      <blade-name>SW/0</blade-name>
      <message-id>0</message-id>
      <date-and-time-info>2014-05-29/01:44:23</date-and-time-info>
      <message>The blade is rebooted.</message>
   </fwdl-entries>
   <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
      <index>20</index>
      <blade-name>SW/0</blade-name>
      <message-id>0</message-id>
      <date-and-time-info>2014-05-29/01:44:23</date-and-time-info>
      <message>Firmware commit begins.</message>
   </fwdl-entries>
   <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
      <index>21</index>
      <blade-name>SW/0</blade-name>
      <message-id>0</message-id>
      <date-and-time-info>2014-05-29/01:48:42</date-and-time-info>
      <message>Firmware commit ends.</message>
   </fwdl-entries>
   <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
      <index>22</index>
      <blade-name>SW/0</blade-name>
      <message-id>0</message-id>
      <date-and-time-info>2014-05-29/01:48:42</date-and-time-info>
      <message>Firmware is downloaded successfully.</message>
   </fwdl-entries>
   <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
      <index>23</index>
      <blade-name>SW/1</blade-name>
      <message-id>0</message-id>
      <date-and-time-info>2014-05-29/01:48:51</date-and-time-info>
      <message>Firmware commit ends.</message>
   </fwdl-entries>
   <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
      <index>24</index>
      <blade-name>SW/1</blade-name>
      <message-id>0</message-id>
      <date-and-time-info>2014-05-29/01:48:51</date-and-time-info>
      <message>Firmware is downloaded successfully.</message>
   </fwdl-entries>
</rpc-reply>
```

Parameters

fwdl-state

Specifies the firmware download state

number-of-entries

Specifies the number of status entries

index

Specifies the sequence number for the message

blade-name

Specifies the name of the blade

message-id

Specifies the message indentifier

date-and-time-info

Specifies 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

get-arp

Retrieves the ARP cache information.

Usage

```
<get-arp xmlns="urn:brocade.com:mgmt:brocade-arp"></get-arp>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
    <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>
</rpc-reply>
```

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

get-contained-in-ID

Retrieves enclosure related information on embedded platforms.

Usage

```
<get-contained-in-ID xmlns="urn:brocade.com:mgmt:brocade-entity"></get-contained-in-ID>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
    <contained-in-ID>Bay 7</contained-in-ID>
</rpc-reply>
```

Parameters

contained-in-ID

Displays present slot ID of switch

get-flexports

Retrieves the list of flexports

Usage

```
<get-flexports xmlns="urn:brocade.com:mgmt:brocade-hardware"/>
    </get-flexports>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
    <flexport-list xmlns="urn:brocade.com:mgmt:brocade-hardware">
        <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>
    </flexport-list>
</rpc-reply>
```

Parameters

port-id

Specifies the Flexport ID

get-interface-detail

Returns operational details of all the possible interfaces of the managed entity. Use this RPC to discover basic characteristics of all the interfaces in the system. Each sublayer below the internetwork layer of a network interface is considered to be an interface.

Usage

```
<get-interface-detail></get-interface-detail>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="67">
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
        <interface-type>fortygigabitethernet</interface-type>
        <interface-name>2/0/49</interface-name>
        <port-role>edge</port-role>
        <port-mode>unknown</port-mode>
        <if-name>FortyGigabitEthernet 2/0/49</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>50:eb:1a:17:40:28</current-hardware-address>
        <logical-hardware-address>50:eb:1a:17:40:28</logical-hardware-address>
        <ifindex>8791662784</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>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
        <interface-type>tengigabitethernet</interface-type>
        <interface-name>2/0/1</interface-name>
        <port-role>isl</port-role>
        <port-mode>unknown</port-mode>
        <if-name>TenGigabitEthernet 2/0/1</if-name>
        <if-state>up</if-state>
        <line-protocol-state>up</line-protocol-state>
        <line-protocol-state-info> (connected)</line-protocol-state-info>
        <hardware-type>ethernet</hardware-type>
        <current-hardware-address>50:eb:1a:17:3f:f8</current-hardware-address>
        <logical-hardware-address>50:eb:1a:17:3f:f8</logical-hardware-address>
        <media-type>sfp</media-type>
        <wavelength>1310</wavelength>
        <ifindex>8791269376</ifindex>
        <mtu>9216</mtu>
        <actual-line-speed>10Gbps</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>303455437</ifHCInOctets>
        <ifHCInUcastPkts>301429</ifHCInUcastPkts>
        <ifHCInMulticastPkts>79743</ifHCInMulticastPkts>
```

```
            <ifHCInBroadcastPkts>0</ifHCInBroadcastPkts>
            <ifHCInErrors>0</ifHCInErrors>
            <ifHCOutOctets>300765428</ifHCOutOctets>
            <ifHCOutUcastPkts>301347</ifHCOutUcastPkts>
            <ifHCOutMulticastPkts>56906</ifHCOutMulticastPkts>
            <ifHCOutBroadcastPkts>0</ifHCOutBroadcastPkts>
            <ifHCOutErrors>0</ifHCOutErrors>
        </interface>
        <interface xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
            <interface-type>tengigabitethernet</interface-type>
            <interface-name>2/0/38</interface-name>
            <port-role>edge</port-role>
            <port-mode>unknown</port-mode>
            <if-name>TenGigabitEthernet 2/0/38</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>50:eb:1a:17:40:1d</current-hardware-address>
            <logical-hardware-address>50:eb:1a:17:40:1d</logical-hardware-address>
            <ifindex>8791572480</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>
        <interface xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
            <interface-type>l2vlan</interface-type>
            <interface-name>1</interface-name>
            <if-name>Vlan 1</if-name>
            <ifindex>1207959553</ifindex>
            <queuing-strategy>fifo</queuing-strategy>
        </interface>
        <interface xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
            <interface-type>l2vlan</interface-type>
            <interface-name>10</interface-name>
            <if-name>Vlan 10</if-name>
            <current-hardware-address>00:27:f8:fd:00:03</current-hardware-address>
            <logical-hardware-address>00:27:f8:fd:00:03</logical-hardware-address>
            <ifindex>1207959562</ifindex>
            <queuing-strategy>fifo</queuing-strategy>
        </interface>
       <has-more xmlns="urn:brocade.com:mgmt:brocade-interface-ext">false</has-more>
</rpc-reply>
```

Parameters

interface-type

Specifies the interface type

interface-name

Specifies the nterface 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 thwe reason for the current line protocol state of the interface

hardware-type
: Dispalys the hardware type

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
: Displays 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

ifHCInUcastPkts
: Displays the 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 The number of packets, delivered by the sub-layer to a higher (sub-)layer, which were addressed to a broadcast address at the sub-layer

ifHCInErrors
: For packet-oriented interfaces, the number of inbound packets that contained errors preventing them from being deliverable to a higher-layer protocol. For character-oriented or fixed-length interfaces, the number of inbound transmission units that contained errors preventing them from being deliverable to a higher-layer protocol

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

ifHCOutUcastPkts
: Displays the total number of packets that higher-level protocols requested be transmitted, and which were not addressed to a multicast or broadcast address at the sub-layer, including those that were discarded or not sent

ifHCOutMulticastPkts
: Dispalys 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

ifHCOutBroadcastPkts
: Displays the total number of packets that higher-level protocols requested be transmitted, and which were addressed to a broadcast address at this sub-layer, including those that were discarded or not sent

ifHCOutErrors
: For packet-oriented interfaces, the number of outbound packets that could not be transmitted because of errors. For character-oriented or fixed-length interfaces, the number of outbound transmission units that could not be transmitted because of errors

ip-mtu
: Displays the IP MTU value of this interface

line-protocol-exception-info
: Displays the 'Exception information' of line protocol

media-type
: Displays the media type

wavelength
: Displays the wavelength of pluggable media

if-description
: Displays the textual string containing information about the interface

queuing-strategy
: Displays the 'Queuing strategy' for this interface

get-interface-switchport

Returns switch-port or Layer 2 characteristics of all the interfaces in the managed device.

Usage

```
<get-interface-switchport></get-interface-switchport>


<rpc-reply message-id="303" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <switchport xmlns="urn:brocade.com:mgmt:brocade-brocade-interface-ext">
        <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>
</rpc-reply>
```

Parameters

interface-name
: Specifies the interface value

interface-type
: Displays the type of the interface

mode
: Displays the mode of the port-channel

fcoe-port-enabled
: Specifies if FCoE capability is enabled on the interface

ingress-filter-enabled
: Indicates if the 'Ingress filtering' is enabled for the interface

acceptable-frame-type
: The switch-port ingress Frame admission policy - whether only tagged Frames are allowed or all

default-vlan
: Displays 'default vlan' identifier value for this switch-port

vlanid
: Displays the list of active VLAN identifiers

get-ip-interface

Returns brief details of all interfaces, loopback and VE interface details of particular managed entity.

Usage

```
<get-ip-interface></get-ip-interface>


<rpc-reply message-id="307" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <interface xmlns="urn:brocade.com:mgmt:brocade-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>
</rpc-reply>
```

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
: 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

ipv4
: Displays the IP address in dotted decimal/Mask (A.B.C.D/M)

get-last-config-update-time

Returns the time stamp of the last configuration change done on the managed device.

Usage

```
<get-last-config-update-time></get-last-config-update-time>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="64">
    <last-config-update-time xmlns="urn:brocade.com:mgmt:brocade-vcs">1401804078</last-config-update-
time>
</rpc-reply>
```

Parameters

last-config-update-time

Displays the time stamp of the last configuration change

last-config-update-time-for-xpaths

Returns the time stamp of the last configuration change done on the managed device for Xpaths.

Usage

```
<get-last-config-update-time-for-xpaths></get-last-config-update-time-for-xpaths>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="63">
    <last-config-update-time-for-xpaths xmlns="urn:brocade.com:mgmt:brocade-vcs">
        <xpath-string>/</xpath-string>
        <last-config-update-time>1401804078</last-config-update-time>
    </last-config-update-time-for-xpaths>
    <last-config-update-time-for-xpaths xmlns="urn:brocade.com:mgmt:brocade-vcs">
        <xpath-string>/cee-map</xpath-string>
        <last-config-update-time>1401793516</last-config-update-time>
    </last-config-update-time-for-xpaths>
</rpc-reply>
```

Parameters

xpath-string

Displays the xpath string

last-config-update-time

Indicates the time stamp of the last configuration change for xpaths

get-lldp-neighbor-detail

Returns the details of all the neighbouring interfaces of the managed entity.

Usage

```
<get-lldp-neighbor-detail></get-lldp-neighbor-detail>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="4">
    <lldp-neighbor-detail xmlns="urn:brocade.com:mgmt:brocade-lldp-ext">
        <local-interface-name>Te 14/1/3</local-interface-name>
        <local-interface-ifindex>203448320</local-interface-ifindex>
        <local-interface-mac>0005.3379.6de0</local-interface-mac>
        <remote-interface-name>port1</remote-interface-name>
        <remote-interface-mac>0005.3348.3043</remote-interface-mac>
        <dead-interval>120</dead-interval>
        <remaining-life>114</remaining-life>
        <remote-chassis-id>0005.3348.3043</remote-chassis-id>
        <lldp-pdu-transmitted>16159</lldp-pdu-transmitted>
        <lldp-pdu-received>15846</lldp-pdu-received>
    </lldp-neighbor-detail>
    <has-more xmlns="urn:brocade.com:mgmt:brocade-lldp-ext">false</has-more>
</rpc-reply>
```

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
: Number of LLDP PDUs transmitted from the interface

lldp-pdu-received
: Number of LLDP PDUs received by the interface

get-mac-acl-for-intf

Returns information about the MAC ACL applied on the specified interfaces.

Usage

```
<get-mac-acl-for-intf></get-mac-acl-for-intf>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="2407">
    <get-mac-acl-for-intf xmlns="urn:brocade.com:mgmt:brocade-mac-access-list">
        <interface>
            <interface-type>l2vlan</interface-type>
            <interface-name>50</interface-name>
            <ingress-policy>
                <policy-name>test_02</policy-name>
            </ingress-policy>
            <egress-policy>
                <policy-name>test_01</egress-policy>
            </egress-policy>
        </interface>
    </get-mac-acl-for-intf>
</rpc-reply>
```

Parameters

interface-type

Displays the interface type

interface-name

Displays the interface name

policy-name

Displays the MAC ACL policy name

get-mac-address-table

Returns the MAC address table for a given MAC address.

Usage

```
<get-mac-address-table> <forwarding-interface> <interface-type>tengigabitethernet</interface-type>
<interface-name>1/0/4</interface-name> </forwarding-interface> <mac-type>static</mac-type> </get-mac-
address-table>


<rpc-reply xmlns=""urn:ietf:params:xml:ns:netconf:base:1.0""
xmlns:nc=""urn:ietf:params:xml:ns:netconf:base:1.0"" message-id=""2"">
       <mac-address-table xmlns=""urn:brocade.com:mgmt:brocade-mac-address-table"">
       <vlanid>10</vlanid>
       <mac-address>00:11:11:11:44:44</mac-address>
       <mac-type>static</mac-type>
       <mac-state>active</mac-state>
       <forwarding-interface>
       <interface-type>tengigabitethernet</interface-type>
       <interface-name>1/0/4</interface-name>
       </forwarding-interface>
      </mac-address-table>
      <has-more xmlns=""urn:brocade.com:mgmt:brocade-mac-address-table"">false</has-more>
      </rpc-reply>

<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>static</last-mac-type>
       </last-mac-address-details>
       <forwarding-interface-type>tengigabitethernet</forwarding-interface-type>
       <forwarding-interface-name>1/0/4</forwarding-interface-name>
     <mac-address-type>static</mac-address-type>
    </get-mac-address-table>

<rpc-reply xmlns=""urn:ietf:params:xml:ns:netconf:base:1.0""
xmlns:nc=""urn:ietf:params:xml:ns:netconf:base:1.0"" message-id=""2"">
       <mac-address-table xmlns=""urn:brocade.com:mgmt:brocade-mac-address-table"">
       <vlanid>10</vlanid>
       <mac-address>00:11:11:82:12:92</mac-address>
       <mac-type>static</mac-type>
       <mac-state>active</mac-state>
       <forwarding-interface>
       <interface-type>tengigabitethernet</interface-type>
       <interface-name>1/0/4</interface-name>
       </forwarding-interface>
      </mac-address-table>
      <has-more xmlns=""urn:brocade.com:mgmt:brocade-mac-address-table"">false</has-more>
      </rpc-reply>
```

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.

History

Release version	History
7.1.0	This NETCONF call was modified.

get-media-detail

Returns the media properties of all the interfaces of the managed entity.

Usage

```
<get-media-detail></get-media-detail>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="59">
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
        <interface-type>fortygigabitethernet</interface-type>
        <interface-name>1/0/52</interface-name>
        <qsfpp>
            <speed>40Gbps</speed>
            <connector>lc</connector>
            <encoding>ieee-802-3ab</encoding>
            <vendor-name>BROCADE         </vendor-name>
            <vendor-oui>00:05:1e</vendor-oui>
            <vendor-pn>57-1000263-01   </vendor-pn>
            <vendor-rev>A </vendor-rev>
            <distance>long-dist</distance>
            <media-form-factor>unknown</media-form-factor>
            <wavelength>26020</wavelength>
            <serial-no>LDF113390001CBS </serial-no>
            <date-code>130928  </date-code>
            <temperature>31</temperature>
            <voltage>3305.7</voltage>
            <current>37.364</current>
            <tx-power>0.0</tx-power>
            <rx-power>2.7</rx-power>
        </qsfpp>
    </interface>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
        <interface-type>tengigabitethernet</interface-type>
        <interface-name>1/0/1</interface-name>
        <sfp>
            <speed>10Gbps</speed>
            <connector>lc</connector>
            <encoding>unknown</encoding>
            <vendor-name>BROCADE</vendor-name>
            <vendor-oui>00:05:1e</vendor-oui>
            <vendor-pn>57-0000076-01</vendor-pn>
            <vendor-rev>A</vendor-rev>
            <distance>unknown</distance>
            <media-form-factor>unknown</media-form-factor>
            <wavelength>1310</wavelength>
            <serial-no>ADF21346000071B </serial-no>
            <date-code>131110</date-code>
            <temperature>36</temperature>
            <voltage>3292.0</voltage>
            <current>38.602</current>
            <tx-power>700.5</tx-power>
            <rx-power>741.6</rx-power>
        </sfp>
    </interface>
</rpc-reply>
```

Parameters

interface-type

Displays the interface type

interface-name
Displays the interface name

speed

connector

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 SFP distance

media-form-factor
Displays the media form factor

wavelength
Displays the wavelength of pluggable media

serial-no
Displays the serial number

date-code
Displays the vendor's manufactoring date code

temperature
Displays the module temperature (degrees C)

voltage
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)

get-nameserver-detail

Retrieves the detailed information of the devices stored in the name server database.

Usage

```
<get-nameserver-detail xmlns=""urn:brocade.com:mgmt:brocade-nameserver""></get-nameserver-detail>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
    <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>
</rpc-reply>
```

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

get-netconf-client-capabilities

Returns the vendor information for all NETCONF clients.

Usage

```
<get-netconf-client-capabilities></get-netconf-client-capabilities>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="57">
    <session xmlns="urn:brocade.com:mgmt:brocade-netconf-ext">
        <session-id>30</session-id>
        <user-name>admin</user-name>
        <vendor>Extreme</vendor>
        <product>NOS Netconf Client</product>
        <version>0.8 beta</version>
        <identity>sgajaraj</identity>
        <af-type>IPV4</af-type>
        <host-ip>172.22.8.111</host-ip>
        <time>2014-06-04T11:00:35+00:00</time>
    </session>
</rpc-reply>
```

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

af-type

host-ip
: Displays IP address of NETCONF client session

time
: Displays the login time of NETCONF client session

get-port-channel-detail

Returns link aggregation control configuration parameters for all the port-channels in the system.

Usage

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


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1002">
    <get-port-channel-detail xmlns="urn:brocade.com:mgmt:brocade-lag">
        <lacp>
            <aggregator-id>27</aggregator-id>
            <aggregator-type>standard</aggregator-type>
            <isvlag>false</isvlag>
            <aggregator-mode>none</aggregator-mode>
            <admin-key>0027</admin-key>
            <oper-key>0027</oper-key>
            <actor-system-id>00-05-33-6f-18-18</actor-system-id>
            <partner-system-id>00-05-1e-cd-6e-9f</partner-system-id>
            <system-priority>32768</system-priority>
            <partner-oper-priority>32768</partner-oper-priority>
            <rx-link-count>4</rx-link-count>
            <tx-link-count>4</tx-link-count>
            <individual-agg>0</individial-agg>
            <ready-agg>1</ready-agg>
            <partner-oper-key>0027</partner-oper-key>
            <aggr-member>
                <rbridge-id>231</rbridge-id>
                <interface-type>tengigabitethernet</interface-type>
                <interface-name>231/0/22</interface-name>
                <actor-port>0xE718160201</actor-port>
                <sync>1</sync>
            </aggr-member>
        </lacp>
        <has-more>true</has-more>
    </get-port-channel-detail>
</rpc-reply>
```

Parameters

aggregator-id
: Displays the aggregator ID

aggregator-type
: Displays the aggregator type

isvlag
: Specifies if agreegator is VLAG

aggregator-mode
: Displays aggregator mode

admin-key
: Displays the admin key

oper-key
: Displays the opertional key

actor-system-id
: Displays the actor system ID

partner-system-id
Displays the partner system ID

system-priority
Displays the System Priority

partner-oper-priority
Displays the partner operational priority

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

partner-oper-key
Displays the Partner Opertional key

rbridge-id
Displays the RBridge ID

interface-type
Displays the interface type

interface-name
Displays the interface name

actor-port
Displays the actor port number

sync
Displays the sync info

get-portchannel-info-by-intf

Returns link aggregation control configuration parameters for a given aggregation port in the system.

Usage

```
<get-portchannel-info-by-intf></get-portchannel-info-by-intf>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1004">
    <get-port-channel-info-by-intf xmlns="urn:brocade.com:mgmt:brocade-lag">
        <lacp>
            <interface-type>tengigabitethernet</interface-type>
            <interface-name>1/0/21</interface-name>
            <actor-port>0x18150014</actor-port>
            <admin-key>10</admin-key>
            <oper-key>0</oper-key>
            <actor-system-id>01-e0-52-00-01-00</actor-system-id>
            <partner-system-id>01-80-c2-00-00-01</partner-system-id>
            <system-priority>32768</system-priority>
            <partner-oper-priority>32768</partner-oper-priority>
            <actor-priority>32768</actor-priority>
            <receive-machine-state>current</recieve-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>100</partner-oper-port>
        </lacp>
    </get-port-channel-info-by-intf>
</rpc-reply>
```

Parameters

interface-type
: Displays interface type

interface-name
: Displays interface name

actor-port
: Displays the actor port number

admin-key
: Displays the Admin key

oper-key
: Displays the Opertional key

actor-system-id
: Displays the Actor system ID

partner-system-id
: Displays the Partner system ID

system-priority
: Displays the System Priority

partner-oper-priority
Displays partner operational priority

actor-priority
Displays the Actor Priority

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

get-port-profile-for-intf

Returns the port-profiles applied on ports and port-channels.

Usage

```
<get-port-profile-for-intf></get-port-profile-for-intf>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="206">
    <interface xmlns="urn:brocade.com:mgmt:brocade-port-profile-ext">
        <interface-type>tengigabitethernet</interface-type>
        <interface-name>9/0/53</interface-name>
        <port-profile>
            <name>auto-VM_Network</name>
        </port-profile>
    </interface>
    <interface xmlns="urn:brocade.com:mgmt:brocade-port-profile-ext">
        <interface-type>tengigabitethernet</interface-type>
        <interface-name>9/0/54</interface-name>
        <port-profile>
            <name>auto-for_iscsi</name>
        </port-profile>
    </interface>
</rpc-reply>
```

Parameters

interface-type

Displays the interface type

interface-name

Displays the interface name

name

Displays the port-profile name

get-port-profile-status

Returns the status of a port-profile.

Usage

```
<get-port-profile-status></get-port-profile-status>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="53">
    <port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile-ext">
        <name>UpgradedVlanProfile</name>
        <ppid>1</ppid>
        <is-active>false</is-active>
        <has-more>false</has-more>
    </port-profile>
</rpc-reply>
```

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

get-stp-brief-info

Returns Spanning Tree Protocol (STP) information.

Usage

```
<get-stp-brief-info></get-stp-brief-info>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="2025">
    <get-stp-brief-info xmlns="urn:brocade.com:mgmt:brocade-xstp-ext">
        <spanning-tree-info>
            <stp-mode>STP</stp-mode>
            <stp>
                <route-bridge>
                    <priority>32768<priority>
                    <bridge-id>22<bridge-id>
                    <hello-time>2<hello-time>
                    <max-age>20</max-age>
                    <forward-delay>15</forward-delay>
                </route-bridge>
                <bridge>
                    <priority>32768</priority>
                    <bridge-id>22</bridge-id>
                    <hello-time>2<hello-time>
                    <max-age>20</max-age>
                    <forward-delay>15</forward-delay>
                    <transmit-hold-count>6</transit-hold-count>
                    <migrate-time>3</migrate-time>
                    <port>
                        <interface-type>Tengigabitethernet</interface-type>
                        <interface-name>22/0/1</interface-name>
                        <spanningtree-enabled>true<spanningtree-enabled>
                        (output truncated)
        </spanning-tree-info>
        <has-more>true</has-more>
        <last-instance>
            <instance-id>91</instance-id>
        </last-instance>
    </get-stp-brief-info>
</rpc-reply>
```

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

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
: 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)

transmit-hold-count

migrate-time

interface-type
: Displays the interface type

interface-name
: Diosplays the interface name

spanningtree-enabled
: Displays if the spnanning tree is enabled

instance-id

get-stp-mst-detail

Returns Multiple Spanning Tree Protocol (MSTP) details.

Usage

```
<get-stp-mst-detail></get-stp-mst-detail>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="2">
    <cist xmlns="urn:brocade.com:mgmt:brocade-xstp-ext">
        <cist-root-id>8000.01e0.5200.3289</cist-root-id>
        <cist-bridge-id>8000.01e0.5200.3289</cist-bridge-id>
        <cist-reg-root-id>8000.01e0.5200.3289</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>14/1/11</interface-name>
            <spanningtree-enabled>false</spanningtree-enabled>
            <if-index>203513856</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>2000</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 xmlns="urn:brocade.com:mgmt:brocade-xstp-ext">
        <instance-id>2</instance-id>
        <msti-root-id>8002.01e0.5200.3289</msti-root-id>
        <msti-bridge-id>8002.01e0.5200.3289</msti-bridge-id>
        <msti-bridge-priority>32770</msti-bridge-priority>
        <port>
            <interface-type>tengigabitethernet</interface-type>
            <interface-name>14/1/21</interface-name>
            <spanningtree-enabled>true</spanningtree-enabled>
            <if-index>203595776</if-index>
            <interface-id>32770</interface-id>
            <if-role>designated</if-role>
            <if-state>forwarding</if-state>
            <internal-path-cost>0</internal-path-cost>
            <configured-path-cost>2000</configured-path-cost>
            <designated-port-id>32770</designated-port-id>
```

```
            <port-priority>128</port-priority>
            <designated-bridge-id>8002.01e0.5200.3289</designated-bridge-id>
            <forward-transitions-count>1</forward-transitions-count>
            <received-stp-type>mstp</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>
            <rx-bpdu-count>3</rx-bpdu-count>
            <tx-bpdu-count>263</tx-bpdu-count>
        </port>
    </msti>
    <has-more xmlns="urn:brocade.com:mgmt:brocade-xstp-ext">false</has-more>
</rpc-reply>
```

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
: Indicates if 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
: Displasy the edge delay

admin-edge
: Displays the admin edge

boundary-port
: Displays the boundary port

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 Point-to-point - enable rapid transition

rx-bpdu-count
: Displays received BPDU count

tx-bpdu-count
: Displays 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

get-system-uptime

Returns the time since the managed entity was last reinitialized.

Usage

```
<get-system-uptime></get-system-uptime>


<rpc-reply message-id="307" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <show-system-uptime xmlns="urn:brocade.com:mgmt:brocade-system">rbridge-id>
        <days>0</days>
        <hours>5</hours>
        <minutes>53</minutes>
        <seconds>4</seconds>
    </show-system-uptime>
</rpc-reply>
```

Parameters

rbridge-id

Specifies 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

get-tunnel-info

Retrieves summary of one or more tunnels from the switch.

Usage

```
<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>
      <rbid>54</rbid>
    </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>
      <rbid>54</rbid>
    </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>
      <rbid>54</rbid>
    </rbridges>
</tunnel>
```

Parameters

rbridge-id

The RBridge ID from which the tunnel information to be retrieved.

tunnel-id-type

Filters by the tunnel ID.

tunnel-mode-type

Filters by the tunnel mode.

overlay-gw-name-type

Filters by the overlay gateway name.

src-ip

Filters by the tunnel source IP. Only IPv4 addresses are supported in this release.

dest-ip
Filters by the tunnel destination IP. Only IPv4 addresses are supported in this release.

config-src-type
Filters by the configuration source.

site-name
Filters by the overlay site name.

admin-name
Filters by the tunnel admin state.

oper-state
Filters by the tunnel operational state.

bfd-state
Filters by tunnel BFD state.

History

Release version	History
7.0.1	This Netconf call was introduced.

get-tunnel-statistics

Retrieves tunnel statistics including the number of bytes and frames sent and received.

Usage

```
<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</x-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>
```

Parameters

rbridge-id
The RBridge ID from which the tunnel statistics to be retrieved.

tunnel-id-type
Filters by the tunnel ID.

tunnel-mode-type
Filters by the tunnel mode.

overlay-gw-name-type
Filters by the overlay gateway name.

History

Release version	History
7.0.1	This Netconf call was introduced.

get-vcs-details

Retains detailed VCS fabric information.

Usage

```
<get-vcs-details></get-vcs-details>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="48">
    <vcs-details xmlns="urn:brocade.com:mgmt:brocade-vcs">
        <node-vcs-mode>true</node-vcs-mode>
        <local-switch-wwn>10:00:50:EB:1A:17:3F:F1</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:FD:00:00</principal-switch-wwn>
        <co-ordinator-wwn>10:00:00:27:F8:FD:00:00</co-ordinator-wwn>
    </vcs-details>
</rpc-reply>
```

Parameters

node-vcs-mode
: Displays 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

get-vlan-brief

Returns operational data for a given VLAN and enumeration of all the interfaces belonging to this VLAN.

Usage

```
<get-vlan-brief></get-vlan-brief>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="47">
    <configured-vlans-count xmlns="urn:brocade.com:mgmt:brocade-interface-ext">13</configured-vlans-
count>
    <provisioned-vlans-count xmlns="urn:brocade.com:mgmt:brocade-interface-ext">13</provisioned-vlans-
count>
    <unprovisioned-vlans-count xmlns="urn:brocade.com:mgmt:brocade-interface-ext">0</unprovisioned-
vlans-count>
    <vlan xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
        <vlan-id>1</vlan-id>
        <vlan-type>static</vlan-type>
        <vlan-name>default</vlan-name>
        <vlan-state>members-down</vlan-state>
        <interface>
            <interface-type>unknown</interface-type>
            <interface-name></interface-name>
            <tag>tagged</tag>
            <classification>
                <classification-type>vni</classification-type>
                <classification-value>2</classification-value>
            </classification>
        </interface>
    </vlan>
    <last-vlan-id xmlns="urn:brocade.com:mgmt:brocade-interface-ext">200</last-vlan-id>
    <has-more xmlns="urn:brocade.com:mgmt:brocade-interface-ext">true</has-more>
</rpc-reply>
```

Parameters

configured-vlans-count

provisioned-vlans-count

unprovisioned-vlans-count

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

get-vmpolicy-macaddr

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

Usage

```
<get-vmpolicy-macaddr xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <vcenter>VC6</vcenter>
</get-vmpolicy-macaddr>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
    <vmpolicy-macaddr xmlns="urn:brocade.com:mgmt:brocade-vswitch">
        <mac>00:21:5e:c6:0e:c8</mac>
        <datacenter>datacenter-4381</datacenter>
        <dvpg-nn>Management Network</dvpg-nn>
        <port-prof>auto_VC6_datacenter-4381_Management+Network</port-prof>
    </vmpolicy-macaddr>
    <instance-id xmlns="urn:brocade.com:mgmt:brocade-vswitch">0</instance-id>
    <has-more xmlns="urn:brocade.com:mgmt:brocade-vswitch">false</has-more>
</rpc-reply>
```

Parameters

vcenter

mac

Displays MAC address in HH:HH:HH:HH:HH:HH format

datacenter

Displays the name of the datacenter

dvpg-nn

Displays distributed virtual port group

port-prof

Displays the port-profile

instance-id

get-vnetwork-dvpgs

Returns discovered distributed virtual port groups.

Usage

```
<get-vnetwork-dvpgs xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <vcenter>VC6</vcenter>
</get-vnetwork-dvpgs>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
    <vnetwork-dvpgs xmlns="urn:brocade.com:mgmt:brocade-vswitch">
        <name>dvPortGroup</name>
        <datacenter>datacenter-2</datacenter>
        <dvs-nn>dvSwitch</dvs-nn>
        <vlan>0,</vlan>
    </vnetwork-dvpgs>
    <vnetwork-dvpgs xmlns="urn:brocade.com:mgmt:brocade-vswitch">
        <name>dvSwitch-DVUplinks-4504</name>
        <datacenter>datacenter-2</datacenter>
        <dvs-nn>dvSwitch</dvs-nn>
        <vlan>0-4094,</vlan>
    </vnetwork-dvpgs>
    <instance-id xmlns="urn:brocade.com:mgmt:brocade-vswitch">0</instance-id>
    <has-more xmlns="urn:brocade.com:mgmt:brocade-vswitch">false</has-more>
</rpc-reply>
```

Parameters

vcenter

name

Displays port group name

datacenter

Displays datacenter name

dvs-nn

Displays distributed virtual switch

vlan

Displays allowed VLANs

instance-id

get-vnetwork-dvs

Returns discovered Distributed Virtual Switches.

Usage

```
<get-vnetwork-dvs xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <vcenter>VC6</vcenter>
</get-vnetwork-dvs>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
    <vnetwork-dvs xmlns="urn:brocade.com:mgmt:brocade-vswitch">
        <name>dvSwitch</name>
        <datacenter>datacenter-2</datacenter>
        <host>ESX5-1-74.englab.brocade.com</host>
        <pnic>vmnic4</pnic>
        <interface-type>unknown</interface-type>
        <interface-name></interface-name>
    </vnetwork-dvs>
    <vnetwork-dvs xmlns="urn:brocade.com:mgmt:brocade-vswitch">
        <name>dvSwitch</name>
        <datacenter>datacenter-2</datacenter>
        <host>ESX5-1-74.englab.brocade.com</host>
        <pnic>vmnic9</pnic>
        <interface-type>unknown</interface-type>
        <interface-name></interface-name>
    </vnetwork-dvs>
    <instance-id xmlns="urn:brocade.com:mgmt:brocade-vswitch">0</instance-id>
    <has-more xmlns="urn:brocade.com:mgmt:brocade-vswitch">false</has-more>
</rpc-reply>
```

Parameters

name
: Displays distributed virtual switch name

datacenter
: Displays host datacenter

host
: Displays host name

pnic
: Displays host NIC

interface-type

interface-name
: Displays interface name

instance-type
: Displays interface type

get-vnetwork-hosts

Returns discovered hosts.

Usage

```
<get-vnetwork-hosts xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <vcenter>VC7</vcenter>
</get-vnetwork-hosts>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
    <vnetwork-hosts xmlns="urn:brocade.com:mgmt:brocade-vswitch">
        <name>ESXi5-1-76.englab.brocade.com</name>
        <datacenter>datacenter-21</datacenter>
        <vmnic>vmnic0</vmnic>
        <mac>00:21:5e:c6:22:00</mac>
        <vswitch>vSwitch0</vswitch>
        <interface-type>unknown</interface-type>
        <interface-name></interface-name>
    </vnetwork-hosts>
    <vnetwork-hosts xmlns="urn:brocade.com:mgmt:brocade-vswitch">
        <name>ESXi5-1-76.englab.brocade.com</name>
        <datacenter>datacenter-21</datacenter>
        <vmnic>vmnic4</vmnic>
        <mac>00:05:1e:b1:12:86</mac>
        <vswitch>vSwitch2</vswitch>
        <interface-type>unknown</interface-type>
        <interface-name></interface-name>
    </vnetwork-hosts>
    <instance-id xmlns="urn:brocade.com:mgmt:brocade-vswitch">0</instance-id>
    <has-more xmlns="urn:brocade.com:mgmt:brocade-vswitch">false</has-more>
</rpc-reply>
```

Parameters

name
: Displays host name

datacenter
: Displays host datacenter

vmnic
: Displays host NIC

mac
: Displays Vmnic MAC address in HH:HH:HH:HH:HH:HH format

vswitch
: Displays regular or distributed virtual switch

interface-type
: Displays interface type

interface-name
: Displays interface name

instance-id

get-vnetwork-portgroups

Returns discovered port groups.

Usage

```
<get-vnetwork-portgroups xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <vcenter>VC7</vcenter>
</get-vnetwork-portgroups>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
    <vnetwork-pgs xmlns="urn:brocade.com:mgmt:brocade-vswitch">
        <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>Management Network</name>
        <datacenter>datacenter-4381</datacenter>
        <vlan>0</vlan>
        <host-nn>ESXi5-0-71.englab.brocade.com</host-nn>
    </vnetwork-pgs>
    <instance-id xmlns="urn:brocade.com:mgmt:brocade-vswitch">0</instance-id>
    <has-more xmlns="urn:brocade.com:mgmt:brocade-vswitch">false</has-more>
</rpc-reply>
```

Parameters

name

Displays the host name

datacenter

Displays the host datacenter

vlan

Displays allowed VLANs

host-nn

Displays host name

instance-id

get-vnetwork-vms

Returns discovered VMs.

Usage

```
<get-vnetwork-vms xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <vcenter>VC7</vcenter>
</get-vnetwork-vms>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
    <vnetwork-vms xmlns="urn:brocade.com:mgmt:brocade-vswitch">
        <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>
</rpc-reply>
```

Parameters

name

Displays host name

datacenter

Displays host datacenter

mac

Displays MAC address

host-nn

Displays host name

get-vnetwork-vswitches

Returns discovered virtual switches.

Usage

```
<get-vnetwork-vswitches xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <vcenter>VC6</vcenter>
</get-vnetwork-vswitches>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
    <vnetwork-vswitches xmlns="urn:brocade.com:mgmt:brocade-vswitch">
        <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 xmlns="urn:brocade.com:mgmt:brocade-vswitch">
        <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>
</rpc-reply>
```

Parameters

name
: Displays Virtual switch name

datacenter
: Displays host datacenter

host
: Displays host name

pnic
: Displays host NIC

interface-type
: Displays interface type

interface-name
: Displays interface name

isns-get-discovery-domain

Displays the iSNS discovery domain.

Usage

```
<isns-get-discovery-domain  xmlns="urn:brocade.com:mgmt:brocade-isns-ext"></isns-get-discovery-domain>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" nc:message-id="1"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0"><isns-discovery-domain-list
xmlns='urn:brocade.com:mgmt:brocade-isns-ext'>
  <isns-discovery-domain-name>disc_dom</isns-discovery-domain-name>
  <isns-vrf-forwarding>1</isns-vrf-forwarding>
  <isns-device-list>
    <isns-device-iqn>isnsdev</isns-device-iqn>
  </isns-device-list>
</isns-discovery-domain-list>
<isns-discovery-domain-total xmlns='urn:brocade.com:mgmt:brocade-isns-ext'>1</isns-discovery-domain-
total>
</rpc-reply>
```

Parameters

isns-discovery-domain-name
: Specifies the iSNS discovery domain name.

iisns-vrf-forwarding
: Specifies the iSNS VRF forwarding instance .

isns-device-list
: Specifies the list of iSNS devices.

isns-device-iqn
: Specifies the IQN of an iSNS devices.

isns-discovery-domain-list
: Specifies the iSNS discovery domain list.

History

Release version	History
7.1.0	This NETCONF call was introduced.

isns-get-discovery-domain-set

Displays the iSNS discovery domain set.

Usage

```
<isns-get-discovery-domain-set xmlns="urn:brocade.com:mgmt:brocade-isns-ext"></isns-get-discovery-
domain-set>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" nc:message-id="2"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0"><isns-discovery-domain-set-list
xmlns='urn:brocade.com:mgmt:brocade-isns-ext'>
  <isns-discovery-domain-set-name>ddt</isns-discovery-domain-set-name>
  <isns-vrf-forwarding>1</isns-vrf-forwarding>
  <isns-discovery-domain-set-status>Disabled</isns-discovery-domain-set-status>
</isns-discovery-domain-set-list>
<isns-discovery-domain-set-list xmlns='urn:brocade.com:mgmt:brocade-isns-ext'>
  <isns-discovery-domain-set-name>disc_set</isns-discovery-domain-set-name>
  <isns-vrf-forwarding>1</isns-vrf-forwarding>
  <isns-discovery-domain-set-status>Enabled</isns-discovery-domain-set-status>
</isns-discovery-domain-set-list>
<isns-discovery-domain-set-total xmlns='urn:brocade.com:mgmt:brocade-isns-ext'>2</isns-discovery-domain-
set-total>
</rpc-reply>
```

Parameters

isns-discovery-domain-set-name
: Specifies the iSNS discovery domain set name.

isns-vrf-forwarding
: Specifies the iSNS VRF forwarding instance .

isns-discovery-domain-list
: Specifies the iSNS discovery domain list.

isns-discovery-domain-set-status
: Specifiesthe stats of the SNS discovery domain set.

isns-discovery-domain-set-total
: Specifies the total number of the iSNS discovery domain set

History

Release version	History
7.1.0	This NETCONF call was introduced.

isns-get-vrf-forwarding

Displays the iSNS VRF forwarding instance ID.

Usage

```
<isns-get-vrf-forwarding xmlns="urn:brocade.com:mgmt:brocade-isns-ext"></isns-get-vrf-forwarding>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" nc:message-id="3"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0"><isns-vrf-forwarding-list
xmlns='urn:brocade.com:mgmt:brocade-isns-ext'>
  <isns-vrf-id>1</isns-vrf-id>
  <isns-ipaddress>10.1.1.1</isns-ipaddress>
  <isns-esi-timeout>140</isns-esi-timeout>
</isns-vrf-forwarding-list>
<isns-vrf-forwarding-total xmlns='urn:brocade.com:mgmt:brocade-isns-ext'>1</isns-vrf-forwarding-total>
</rpc-reply>
```

Parameters

isns-vrf-id

Specifies the iSNS VRF ID.

isns-ipaddress

Specifiesthe iSNS IP address.

iisns-esi-timeout

Specifies the iSNS ESI timeout.

isns-vrf-forwarding-list

Specifies the iSNS VRF forwarding list.

isns-vrf-forwarding-list

Specifies the totall number of the iSNS VRF forwarding instances.

History

Release version	History
7.1.0	This NETCONF call was introduced.

isns-get-device-brief

Retrieves brief information about an iSNS device.

Usage

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" nc:message-id="3"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0">
<isns-device-total xmlns='urn:brocade.com:mgmt:brocade-isns-ext'>0</isns-device-total>
</rpc-reply>
```

Parameters

isns-device-total

Specifies the total number of iSNS devices.

History

Release version	History
7.1.0	This NETCONF call was introduced.

isns-get-last-device-timestamp

Displays the latest timestamp of an iSNS device.

Usage

```
<isns-get-last-device-timestamp xmlns="urn:brocade.com:mgmt:brocade-isns-ext"></isns-get-last-device-
timestamp>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" nc:message-id="3"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0"><device-login-logout-time
xmlns='urn:brocade.com:mgmt:brocade-isns-ext'>1969/12/31 16:00:00</device-login-logout-time>
</rpc-reply>
```

Parameters

device-login-logout-time

Specifies the login and logout time for the device.

History

Release version	History
7.1.0	This NETCONF call was introduced.

l2traceroute-result

Returns the result of a TRILL traceroute.

Usage

```
<l2traceroute-result xmlns=""urn:brocade.com:mgmt:brocade-trilloam"">
        <session-id>131073</session-id>
    </l2traceroute-result>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
    <l2-hop-results></l2-hop-results>
    <l2traceroutedone>true</l2traceroutedone>
    <reason>Timed-out waiting for a response</reason>
</rpc-reply>
```

Parameters

l2-hop-results

l2traceroutedone

reason

maps-get-all-policy

Retrieves the existing MAPS Policies.

Usage

```
<maps-get-all-policy></maps-get-all-policy>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="3">
    <policy xmlns="urn:brocade.com:mgmt:brocade-maps-ext">
        <policyname>dflt_conservative_policy</policyname>
        <policyname>dflt_aggressive_policy</policyname>
        <policyname>dflt_moderate_policy</policyname>
    </policy>
</rpc-reply>
```

Parameters

policyname

Displays MAPS policy name

maps-get-rules

Retrieves the existing MAPS Rules.

Usage

```
<maps-get-rules></maps-get-rules>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="3">
    <rules xmlns="urn:brocade.com:mgmt:brocade-maps-ext">
        <rulename>defALL_ETH_PORTS_CRCALN_6</rulename>
        <groupname>ALL_ETH_PORTS</groupname>
        <monitor>CRCALN</monitor>
        <op>></op>
        <value>6</value>
        <action>RASLOG,SNMP,EMAIL</action>
        <timebase>MIN</timebase>
        <policyname>dflt_aggressive_policy</policyname>
    </rules>
</rpc-reply>
```

Parameters

rulename
: Displays MAPS rule name

groupname
: Displays MAPS group name

monitor
: Displays MAPS monitor name

op
: Displays MAPS operator

value
: Displays MAPS threshold value

action
: Displays MAPS action value

timebase
: Displays MAPS timebase value

policyname
: Displays MAPS policy associated with rule

no-vcs-rbridge-context

Disables VCS Fabric mode.

Usage

```
<no-vcs-rbridge-context></no-vcs-rbridge-context>
```

reload

Reloads the switch.

Usage

```
<reload xmlns=""urn:brocade.com:mgmt:brocade-ha""></reload>
```

set-http-application-url

Updates the HTTP application URL.

Usage

```
<set-http-application-url xmlns=""urn:brocade.com:mgmt:brocade-http-redirect"">
    <config-http-app-url>
        <url>www.google.com</url>
        <op-type>1</op-type>
    </config-http-app-url>
</set-http-application-url>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
    <status-code>0</status-code>
    <status-string>Success</status-string>
</rpc-reply>
```

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

show-bare-metal-state

Indicates the bare-metal state on the system.

Usage

```
<show-bare-metal-state></show-bare-metal-state>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="3">
    <bare-metal-state xmlns="urn:brocade.com:mgmt:brocade-preprovision">disable</bare-metal-state>
</rpc-reply>
```

Parameters

bare-metal-state

Indicates the bare-metal state on the system

show-clock

Returns the date, time, and time zone.

Usage

```
<show-clock></show-clock>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="7">
    <clock-time xmlns="urn:brocade.com:mgmt:brocade-clock">
        <rbridge-id-out>2</rbridge-id-out>
        <current-time>2014-06-04T11:03:31+00:00</current-time>
        <timezone>Etc/GMT</timezone>
    </clock-time>
</rpc-reply>
```

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

NETCONF path

Returns all ISL trunk information in a fabric.

Usage

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
    <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>74</trunk-list-src-port>
                <trunk-list-interface-type>Te</trunk-list-interface-type>
                <trunk-list-src-interface>3/0/11</trunk-list-src-interface>
                <trunk-list-nbr-rbridge-id>1</trunk-list-nbr-rbridge-id>
                <trunk-list-nbr-port>162</trunk-list-nbr-port>
                <trunk-list-nbr-interface-type>Te</trunk-list-nbr-interface-type>
                <trunk-list-nbr-interface>1/0/19</trunk-list-nbr-interface>
                <trunk-list-nbr-wwn>10:00:00:05:33:E6:9C:00</trunk-list-nbr-wwn>
                <trunk-list-is-primary>True</trunk-list-is-primary>
            </trunk-list-member>
            <trunk-list-member>
                <trunk-list-src-port>72</trunk-list-src-port>
                <trunk-list-interface-type>Te</trunk-list-interface-type>
                <trunk-list-src-interface>3/0/9</trunk-list-src-interface>
                <trunk-list-nbr-rbridge-id>1</trunk-list-nbr-rbridge-id>
                <trunk-list-nbr-port>164</trunk-list-nbr-port>
                <trunk-list-nbr-interface-type>Te</trunk-list-nbr-interface-type>
                <trunk-list-nbr-interface>1/0/21</trunk-list-nbr-interface>
                <trunk-list-nbr-wwn>10:00:00:05:33:E6:9C:00</trunk-list-nbr-wwn>
                <trunk-list-is-primary>False</trunk-list-is-primary>
            </trunk-list-member>
            <trunk-list-member>
                <trunk-list-src-port>73</trunk-list-src-port>
                <trunk-list-interface-type>Te</trunk-list-interface-type>
                <trunk-list-src-interface>3/0/10</trunk-list-src-interface>
                <trunk-list-nbr-rbridge-id>1</trunk-list-nbr-rbridge-id>
                <trunk-list-nbr-port>165</trunk-list-nbr-port>
                <trunk-list-nbr-interface-type>Te</trunk-list-nbr-interface-type>
                <trunk-list-nbr-interface>1/0/22</trunk-list-nbr-interface>
                <trunk-list-nbr-wwn>10:00:00:05:33:E6:9C:00</trunk-list-nbr-wwn>
                <trunk-list-is-primary>False</trunk-list-is-primary>
            </trunk-list-member>
        </trunk-list-groups>
    </show-trunk-list>
</rpc-reply>
```

Parameters

trunk-list-group

Provides the trunk group number the interface belongs to. Trunk members of a trunk group have the same group number

trunk-list-src-port

Displays the source port index of the trunk member

trunk-list-interface-type

Displays the interface type

trunk-list-src-interface

Displays the source port interface info

trunk-list-nbr-rbridge-id
Displays the RBbridge id of the neighboring switch that connects to this trunk member port

trunk-list-nbr-port
Displays neighbor port index of the trunk member

trunk-list-nbr-interface-type
Displays the interface type

trunk-list-nbr-interface
Displays the neighbour 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

History

Release version	History
7.0.0	This Netconf call was introduced.

show-fibrechannel-interface-info

Provides detailed information of Fibre Channel ports in the routing bridge.

Usage

```
<show-fibrechannel-interface-info></show-fibrechannel-interface-info>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="9">
    <show-fibrechannel-interface xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
        <portsgroup-rbridgeid>2</portsgroup-rbridgeid>
    </show-fibrechannel-interface>
</rpc-reply>
```

Parameters

portsgroup-rbridgeid

Displays the RBridge ID of the switch

show-firmware-version

Returns firmware version information.

Usage

```
<show-firmware-version></show-firmware-version>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="10">
    <show-firmware-version xmlns="urn:brocade.com:mgmt:brocade-firmware-ext">
        <switchid>2</switchid>
        <os-name>Network Operating System Software</os-name>
        <os-version>6.0.1</os-version>
        <copy-right-info>Copyright (c) 1995-2018 Extreme Networks, Inc.</copy-right-info>
        <build-time>Tue Jul 18 02:28:36 2015</build-time>
        <firmware-full-version>6.0.1a_rc1_bld02</firmware-full-version>
        <control-processor-vendor>Freescale Semiconductor</control-processor-vendor>
        <control-processor-chipset>P4040</control-processor-chipset>
        <control-processor-memory>4096 MB</control-processor-memory>
        <node-info>
            <slot-no>0</slot-no>
            <node-instance-no>1</node-instance-no>
            <node-type>type-mm</node-type>
            <firmware-version-info>
                <application-name>NOS</application-name>
                <primary-version>6.0.1a_rc1_bld02</primary-version>
                <secondary-version>6.0.1a_rc1_bld02</secondary-version>
            </firmware-version-info>
        </node-info>
    </show-firmware-version>
</rpc-reply>
```

Parameters

switchid
: Switch ID specifies the particular switch to fetch firmware version information

os-name
: Displays the name of the Firmware version. Example: NOS, FOS, etc.

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 information on the control processor

control-processor-chipset
: Displays information on the control processor

control-processor-memory
: Displays memory of the control processor

slot-no
: Displays the slot number

node-instance-no
: Displays the instance number

node-type
: Displays the node type

application-name
: Displays the name of the application

primary-version
: Indicates the primary version

secondary-version
: Indicates the secondary version

show-linkinfo

Returns details of all the links connected in the fabric.

Usage

```
<show-linkinfo></show-linkinfo>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="11">
    <show-link-info xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
        <linkinfo-rbridgeid>1</linkinfo-rbridgeid>
        <linkinfo-domain-reachable>Yes</linkinfo-domain-reachable>
        <linkinfo-version>1</linkinfo-version>
        <linkinfo-wwn>10:00:00:27:F8:FD:00:00</linkinfo-wwn>
        <linkinfo-isl>
            <linkinfo-isl-linknumber>1</linkinfo-isl-linknumber>
            <linkinfo-isllink-destdomain>2</linkinfo-isllink-destdomain>
            <linkinfo-isllink-srcport>64</linkinfo-isllink-srcport>
            <linkinfo-isllink-srcport-type>Te</linkinfo-isllink-srcport-type>
            <linkinfo-isllink-srcport-interface>1/0/1</linkinfo-isllink-srcport-interface>
            <linkinfo-isllink-destport>64</linkinfo-isllink-destport>
            <linkinfo-isllink-destport-type>Te</linkinfo-isllink-destport-type>
            <linkinfo-isllink-destport-interface>2/0/1</linkinfo-isllink-destport-interface>
            <linkinfo-isl-linkcost>500</linkinfo-isl-linkcost>
            <linkinfo-isllink-costcount>10</linkinfo-isllink-costcount>
            <linkinfo-isllink-type>4</linkinfo-isllink-type>
            <linkinfo-trunked>Yes</linkinfo-trunked>
        </linkinfo-isl>
    </show-link-info>
</rpc-reply>
```

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

linkinfo-isl-linknumber

linkinfo-isllink-destdomain

linkinfo-isllink-srcport

linkinfo-isllink-srcport-type

linkinfo-isllink-srcport-interface

linkinfo-isllink-destport

linkinfo-isllink-destport-type

linkinfo-isllink-destport-interface

linkinfo-isl-linkcost

linkinfo-isllink-costcount

linkinfo-isllink-type

linkinfo-trunked

show-ntp

Returns the active NTP server for the Extreme VCS fabric or specified switch.

Usage

```
<show-ntp></show-ntp>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="12">
    <node-active-server xmlns="urn:brocade.com:mgmt:brocade-ntp">
        <rbridge-id-out>2</rbridge-id-out>
        <LOCL>true</LOCL>
    </node-active-server>
</rpc-reply>
```

Parameters

rbridge-id-out

Displays the RBridge ID

LOCL

Indicates whether the LOCL is true or false

show-portindex-interface-info

Returns the details of 10Gb Ethernet and FCoE ports.

Usage

```
<show-portindex-interface-info></show-portindex-interface-info>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="13">
    <show-portindex-interface xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
        <portsgroup-rbridgeid>2</portsgroup-rbridgeid>
        <show-portindex>
            <port-index>64</port-index>
            <port-interface>2/0/1</port-interface>
            <port-type>Te</port-type>
        </show-portindex>
        <show-portindex>
            <port-index>113</port-index>
            <port-interface>2/0/50</port-interface>
            <port-type>Fo</port-type>
        </show-portindex>
        <show-portindex>
            <port-index>114</port-index>
            <port-interface>2/0/51</port-interface>
            <port-type>Fo</port-type>
        </show-portindex>
        <show-portindex>
            <port-index>115</port-index>
            <port-interface>2/0/52</port-interface>
            <port-type>Fo</port-type>
        </show-portindex>
    </show-portindex-interface>
</rpc-reply>
```

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

show-raslog

Returns RASlog entries.

Usage

```
<show-raslog></show-raslog>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="14">
    <show-all-raslog xmlns="urn:brocade.com:mgmt:brocade-ras-ext">
        <rbridge-id>2</rbridge-id>
        <number-of-entries>2842</number-of-entries>
        <raslog-entries>
            <index>8288</index>
            <message-id>NSM-1019</message-id>
            <date-and-time-info>2013/12/07-03:21:17:69</date-and-time-info>
            <severity>informational</severity>
            <log-type>dce</log-type>
            <repeat-count>1</repeat-count>
            <message> Interface Ve 4093 is administratively up.</message>
            <message-flag>unknown</message-flag>
            <switch-or-chassis-name>sw0</switch-or-chassis-name>
        </raslog-entries>
        <raslog-entries>
            <index>13584</index>
            <message-id>SEC-3022</message-id>
            <date-and-time-info>2014/06/03-14:03:52:25</date-and-time-info>
            <severity>informational</severity>
            <log-type>system</log-type>
            <repeat-count>1</repeat-count>
            <message>Event: logout, Status: success, Info: Successful logout by user [admin].</message>
            <message-flag>unknown</message-flag>
            <switch-or-chassis-name>sw0</switch-or-chassis-name>
        </raslog-entries>
    </show-all-raslog>
</rpc-reply>
```

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

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 for the generator of the message, or chassis

show-support-save-status

Returns information about the status of a recent support save request.

Usage

```
<show-support-save-status></show-support-save-status>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="15">
    <show-support-save-status xmlns="urn:brocade.com:mgmt:brocade-ras-ext">
        <rbridge-id>2</rbridge-id>
        <status>unknown</status>
        <message>supportsave is not running.</message>
        <percentage-of-completion>0</percentage-of-completion>
    </show-support-save-status>
</rpc-reply>
```

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

show-system-info

Returns the routing bridge ID and MAC address of the switch.

Usage

```
<show-system-info></show-system-info>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="16">
    <show-system-info xmlns="urn:brocade.com:mgmt:brocade-ras-ext">
        <rbridge-id>2</rbridge-id>
        <stack-mac>50:eb:1a:17:3f:f1</stack-mac>
    </show-system-info>
</rpc-reply>
```

Parameters

rbridge-id

Displays the RBridge ID

stack-mac

Displays the MAC address of the switch

show-system-monitor

Returns system status information.

Usage

```
<show-system-monitor></show-system-monitor>


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="17">
    <switch-status xmlns="urn:brocade.com:mgmt:brocade-system-monitor-ext">
        <rbridge-id-out>2</rbridge-id-out>
        <switch-name>sw0</switch-name>
        <switch-ip>10.25.224.18</switch-ip>
        <switch-state>state-marginal</switch-state>
        <switch-state-reason>Switch Status is MARGINAL. Contributors: * Power Supply: 1 bad.
(MARGINAL).</switch-state-reason>
        <report-time>2014-06-04T11:10:5711.668484+31:03</report-time>
        <component-status>
            <component-name>Power supplies monitor</component-name>
            <component-state>state-marginal</component-state>
        </component-status>
        <component-status>
            <component-name>Temperatures monitor</component-name>
            <component-state>state-healthy</component-state>
        </component-status>
        <component-status>
            <component-name>Fans monitor</component-name>
            <component-state>state-healthy</component-state>
        </component-status>
    </switch-status>
</rpc-reply>
```

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

show-vcs

Provides general VCS fabric information.

Usage

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


<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="18">
    <vcs-cluster-type-info xmlns="urn:brocade.com:mgmt:brocade-vcs">vcs-management-cluster</vcs-cluster-
type-info>
    <vcs-guid xmlns="urn:brocade.com:mgmt:brocade-vcs">fba9bb11-bd89-4605-969f-4e7d2f85de27</vcs-guid>
    <virtual-ip-address xmlns="urn:brocade.com:mgmt:brocade-vcs">NULL</virtual-ip-address>
    <principal-switch-wwn xmlns="urn:brocade.com:mgmt:brocade-vcs">10:00:00:27:F8:FD:00:00</principal-
switch-wwn>
    <co-ordinator-wwn xmlns="urn:brocade.com:mgmt:brocade-vcs">10:00:00:27:F8:FD:00:00</co-ordinator-
wwn>
    <total-nodes-in-cluster xmlns="urn:brocade.com:mgmt:brocade-vcs">2</total-nodes-in-cluster>
    <nodes-disconnected-from-cluster xmlns="urn:brocade.com:mgmt:brocade-vcs">0</nodes-disconnected-
from-cluster>
    <cluster-generic-status xmlns="urn:brocade.com:mgmt:brocade-vcs">Good</cluster-generic-status>
    <cluster-specific-status xmlns="urn:brocade.com:mgmt:brocade-vcs">All Nodes Present in the Cluster</
cluster-specific-status>
    <vcs-nodes xmlns="urn:brocade.com:mgmt:brocade-vcs">
        <vcs-node-info>
            <node-num>1</node-num>
            <node-serial-num>CPL2519K0EF</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:fd:00:00</node-switch-mac>
            <node-switch-wwn>10:00:00:27:F8:FD:00:00</node-switch-wwn>
            <switch-fcf-mac>de:ad:be:ef:de:ad</switch-fcf-mac>
            <node-internal-ip-address>127.1.0.1</node-internal-ip-address>
            <node-public-ip-addresses>
                <node-public-ip-address>10.25.224.17</node-public-ip-address>
            </node-public-ip-addresses>
            <node-public-ipv6-addresses>
                <node-public-ipv6-address>2004:384d::23:24</node-public-ipv6-address>
            </node-public-ipv6-addresses>
            <node-swbd-number>131</node-swbd-number>
            <firmware-version>v6.0.1a_rc1_bld02</firmware-version>
            <node-switchname>sw0</node-switchname>
            <node-switchtype>BR-VDX6740</node-switchtype>
            <node-switch-subtype>2</node-switch-subtype>
            <node-switch-description>Not supported in this platform</node-switch-description>
            <manufacturer-name>Not supported in this platform</manufacturer-name>
            <node-state>Online</node-state>
            <node-fabric-state>Online</node-fabric-state>
        </vcs-node-info>
    </vcs-nodes>
</rpc-reply>
```

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

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
Displasy the serial number

node-condition
Displays the node condition

node-status
Displays the node status

node-vcs-mode
Sisplays node's VCS mode

node-vcs-id
Displays the node VCS ID

node-rbridge-id
Displays the node RBridge ID

node-is-principal
Indicates if the node is management cluster principal

co-ordinator

node-switch-mac
Displays the node switch MAC address

node-switch-wwn
Displays the node switch WWN

witch-fcf-mac
Displasy the node FCF MAC address

node-internal-ip-address
Displays the node internal IP address

node-public-ip-address
: Displays the node public IP address

node-public-ipv6-address
: Displays the node public IPv6 address

node-swbd-number
: Displays the node SWBD number

firmware-version
: Displays the node firmware version

node-switchname
: Displays the node switch name

node-switchtype

node-switch-subtype

node-switch-description

manufacturer-name

node-state

node-fabric-state
: Displays the Fabric node state

show-zoning-enabled-configuration

Returns the currently enabled zoning configuration information.

Usage

```
<show-zoning-enabled-configuration></show-zoning-enabled-configuration>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" xmlns="urn:ietf:params:xml:ns:netconf:base:
1.0" message-id="1">
    <enabled-configuration xmlns="urn:brocade.com:mgmt:brocade-zone">
        <cfg-name>cfg1</cfg-name>
        <enabled-zone>
            <zone-name>zone1</zone-name>
            <member-entry>
                <entry-name>10:00:00:00:00:00:00:01</entry-name>
            </member-entry>
            <member-entry>
                <entry-name>10:00:00:00:00:00:00:02</entry-name>
            </member-entry>
        </enabled-zone>
        <enabled-zone>
            <zone-name>zone2</zone-name>
            <member-entry>
                <entry-name>10:00:00:00:00:00:00:03</entry-name>
            </member-entry>
            <member-entry>
                <entry-name>10:00:00:00:00:00:00:04</entry-name>
            </member-entry>
        </enabled-zone>
        <has-more>false</has-more>
    </enabled-configuration>
</rpc-reply>
```

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

user-session-info

Returns user role information.

Usage

```
<user-session-info></user-session-info>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="20">
    <user-role xmlns="urn:brocade.com:mgmt:brocade-aaa-ext">admin</user-role>
</rpc-reply>
```

Parameters

user-role

Displays the user role

vcs-rbridge-config

Retrieves the VCS ID and Rbridge ID in the DUT.

Usage

```
<nc:rpc xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" nc:message-id="3">
    <vcs-rbridge-config xmlns="urn:brocade.com:mgmt:brocade-vcs">
        <vcs-id>50</vcs-id>
        <rbridge-id>4</rbridge-id>
    </vcs-rbridge-config>
</nc:rpc>
```

Parameters

vcs-id

Specifies the VCS ID

rbridge-id

Specifies the RBridge ID

vcs-rbridge-context

Sets VCS Fabric mode for a given routing bridge.

Usage

```
<vcs-rbridge-context xmlns=""urn:brocade.com:mgmt:brocade-vcs"">
    <rbridge-id>14</rbridge-id>
</vcs-rbridge-context>
```

Parameters

rbridge-id

Specifies the RBridge ID