

53-1003775-01  
25 June 2015



# Network OS

---

## REST API Guide

Supporting Network OS 6.0.1

**BROCADE**

## © 2015, Brocade Communications Systems, Inc. All Rights Reserved.

ADX, Brocade, Brocade Assurance, the B-wing symbol, DCX, Fabric OS, HyperEdge, ICX, MLX, MyBrocade, OpenScript, The Effortless Network, VCS, VDX, Vplane, and Vyatta are registered trademarks, and Fabric Vision and vADX are trademarks of Brocade Communications Systems, Inc., in the United States and/or in other countries. Other brands, products, or service names mentioned may be trademarks of others.

Notice: This document is for informational purposes only and does not set forth any warranty, expressed or implied, concerning any equipment, equipment feature, or service offered or to be offered by Brocade. Brocade reserves the right to make changes to this document at any time, without notice, and assumes no responsibility for its use. This informational document describes features that may not be currently available. Contact a Brocade sales office for information on feature and product availability. Export of technical data contained in this document may require an export license from the United States government.

The authors and Brocade Communications Systems, Inc. assume no liability or responsibility to any person or entity with respect to the accuracy of this document or any loss, cost, liability, or damages arising from the information contained herein or the computer programs that accompany it.

The product described by this document may contain open source software covered by the GNU General Public License or other open source license agreements. To find out which open source software is included in Brocade products, view the licensing terms applicable to the open source software, and obtain a copy of the programming source code, please visit <http://www.brocade.com/support/oscd>.

### Brocade Communications Systems, Incorporated

Corporate and Latin American Headquarters  
Brocade Communications Systems, Inc.  
130 Holger Way  
San Jose, CA 95134  
Tel: 1-408-333-8000  
Fax: 1-408-333-8101  
E-mail: [info@brocade.com](mailto:info@brocade.com)

Asia-Pacific Headquarters  
Brocade Communications Systems China HK, Ltd.  
No. 1 Guanghua Road  
Chao Yang District  
Units 2718 and 2818  
Beijing 100020, China  
Tel: +8610 6588 8888  
Fax: +8610 6588 9999  
E-mail: [china-info@brocade.com](mailto:china-info@brocade.com)

European Headquarters  
Brocade Communications Switzerland Sàrl  
Centre Swissair  
Tour B - 4ème étage  
29, Route de l'Aéroport  
Case Postale 105  
CH-1215 Genève 15  
Switzerland  
Tel: +41 22 799 5640  
Fax: +41 22 799 5641  
E-mail: [emea-info@brocade.com](mailto:emea-info@brocade.com)

Asia-Pacific Headquarters  
Brocade Communications Systems Co., Ltd. (Shenzhen WFOE)  
Citic Plaza  
No. 233 Tian He Road North  
Unit 1308 - 13th Floor  
Guangzhou, China  
Tel: +8620 3891 2000  
Fax: +8620 3891 2111  
E-mail: [china-info@brocade.com](mailto:china-info@brocade.com)

### Document History

Title	Publication number	Summary of changes	Date
<i>Brocade Network OS REST API Guide</i>	53-1003322-01	New document	28 August 2014
<i>Brocade Network OS REST API Guide</i>	53-1003462-01	Updated for Network OS v5.0.1	30 September 2014
<i>Brocade Network OS REST API Guide</i>	53-1003462-02	Updated for Network OS v5.0.1a	24 November 2014
<i>Brocade Network OS REST API Guide</i>	53-1003667-01	Updated for Network OS v6.0.0	27 February 2015
<i>Brocade Network OS REST API Guide</i>	53-1003667-02	Updated for Network OS v6.0.0	13 March 2015
<i>Brocade Network OS REST API Guide</i>	53-1003775-01	Updated for Network OS v6.0.1	25 June 2015

# Contents

---

## Preface

Document conventions . . . . .	xi
Text formatting conventions . . . . .	xi
Command syntax conventions . . . . .	xi
Notes, cautions, and warnings . . . . .	xii
Brocade resources . . . . .	xii
Contacting Brocade Technical Support . . . . .	xiii
Brocade customers . . . . .	xiii
Brocade OEM customers . . . . .	xiii
Document feedback . . . . .	xiv

## About This Document

How this document is organized . . . . .	xv
Supported hardware and software . . . . .	xv
What's new in this document . . . . .	xvi

## Chapter 1

### Overview of the Network OS REST API

Network OS REST API . . . . .	1
Resources . . . . .	2
Base resource . . . . .	2
Configuration resource (/rest/config) . . . . .	3
YANG-RPC Operations resource (/rest/operational-state) . . . . .	3
Relationship of YANG and resource data models . . . . .	3
Protocol support . . . . .	4
URIs . . . . .	4
URI structure . . . . .	4
URL Encoding . . . . .	5
Base URI . . . . .	5
Top-level URIs . . . . .	5

## Chapter 2

### Using the Brocade Network OS REST API

Before you begin . . . . .	7
Logging in and out . . . . .	7
Supported operations . . . . .	7
GET . . . . .	7
POST . . . . .	8
PUT . . . . .	9

	PATCH .....	10
	DELETE .....	10
	HEAD .....	11
	OPTIONS .....	12
	XML resource representation .....	12
	Media types .....	13
	HTTP header .....	13
	Request header .....	13
	Response headers .....	14
	HTTP status code and messages .....	15
<b>Chapter 3</b>	<b>Use Cases</b>	
	Sample use cases for Network OS REST API .....	17
	LDAP server configuration .....	17
	Configuring LDAP .....	17
	ACL configuration .....	21
	Creating a standard MAC ACL .....	21
	Applying a MAC ACL to a VLAN interface .....	22
	Modifying MAC ACL rules .....	23
	Removing a MAC ACL .....	23
<b>Chapter 4</b>	<b>API Reference</b>	
	Configuration APIs .....	25
	aaa .....	26
	aaa/accounting .....	27
	aaa/authentication .....	29
	alias-config .....	31
	alias-config/alias .....	32
	alias-config/user .....	34
	arp .....	36
	banner .....	38
	cee-map .....	40
	cee-map/priority-group-table .....	42
	cee-map/priority-table .....	44
	cee-map/remap .....	45
	class-map .....	46
	diag .....	48
	dot1x .....	50
	dpod .....	52
	fabric .....	54
	fcoe .....	56
	hardware .....	58
	hardware/connector .....	60
	hardware/connector-group .....	62
	hardware/custom-profile .....	63
	hardware/flexport .....	65
	hardware/port-group .....	67
	interface .....	68

interface/{interface-type}/{interface-name}/bfd	74
interface/{interface-type}/{interface-name}/bpdudrop	76
interface/{interface-type}/{interface-name}/channel-group	78
interface/{interface-type}/{interface-name}/dot1x	80
interface/{interface-type}/{interface-name}/ edge-loop-detection	83
interface/{interface-type}/{interface-name}/fabric	85
interface/{interface-type}/{interface-name}/fcoeport	87
interface/{interface-type}/{interface-name}/ip	88
interface/{interface-type}/{interface-name}/ip/access-group	91
interface/{interface-type}/{interface-name}/ip/address	93
interface/{interface-type}/{interface-name}/ip/arp	95
interface/{interface-type}/{interface-name}/ip/dhcp	97
interface/{interface-type}/{interface-name}/ip/icmp	99
interface/{interface-type}/{interface-name}/ip/igmp	101
interface/{interface-type}/{interface-name}/ip/ospf	103
interface/{interface-type}/{interface-name}/ip/pim	106
interface/{interface-type}/{interface-name}/ip/policy	108
interface/{interface-type}/{interface-name}/ipv6	110
interface/{interface-type}/{interface-name}/ipv6/ access-group	113
interface/{interface-type}/{interface-name}/ipv6/address	115
interface/{interface-type}/{interface-name}/ipv6/dhcp	117
interface/{interface-type}/{interface-name}/ipv6/icmpv6	119
interface/{interface-type}/{interface-name}/ipv6/nd	121
interface/{interface-type}/{interface-name}/ipv6/neighbor	124
interface/{interface-type}/{interface-name}/ipv6/ospf	126
interface/{interface-type}/{interface-name}/ipv6/policy	129
interface/{interface-type}/{interface-name}/ipv6/vrrp-group	131
interface/{interface-type}/{interface-name}/lacp	133
interface/{interface-type}/{interface-name}/lldp	135
interface/{interface-type}/{interface-name}/mac	137
interface/{interface-type}/{interface-name}/mac-learning	139
interface/{interface-type}/{interface-name}/openflow	141
interface/{interface-type}/{interface-name}/port-profile-port	143
interface/{interface-type}/{interface-name}/qos	145
interface/{interface-type}/{interface-name}/rmon	147
interface/{interface-type}/{interface-name}/service-policy	150
interface/{interface-type}/{interface-name}/sflow	151
interface/{interface-type}/{interface-name}/spanning-tree	153
interface/{interface-type}/{interface-name}/storm-control	156
interface/{interface-type}/{interface-name}/switchport	159
interface/{interface-type}/{interface-name}/track	164
interface/{interface-type}/{interface-name}/tunnel	166
interface/{interface-type}/{interface-name}/udld	167
interface/{interface-type}/{interface-name}/vlan	168
interface/{interface-type}/{interface-name}/vrf	170
interface/{interface-type}/{interface-name}/vrrp-group	172
interface/ve/{vlan-id}/ip/fabric-virtual-gateway	173
interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway	175
interface/vlan/{vlan-number}/ip/arp	177
interface/vlan/{vlan-number}/private-vlan	179

interface/vlan/{vlan-number}/transport-service . . . . .	181
interface/port-channel/{port-channel-number}/vlag . . . . .	182
ip . . . . .	183
ip/access-list . . . . .	185
ip/dns . . . . .	190
ip/igmp . . . . .	192
ipv6 . . . . .	194
ipv6/access-list . . . . .	195
ipv6/mld . . . . .	199
lACP . . . . .	200
ldap-server . . . . .	202
ldap-server/host . . . . .	203
ldap-server/maprole . . . . .	205
line . . . . .	207
logging . . . . .	209
logging/auditlog . . . . .	211
logging/raslog . . . . .	213
logging/syslog-client . . . . .	214
logging/syslog-facility. . . . .	216
logging/syslog-server. . . . .	218
mac . . . . .	220
mac-address-table . . . . .	224
mac-address-table/aging-time . . . . .	226
mac-address-table/consistency-check. . . . .	227
mac-address-table/mac-move . . . . .	229
mac-address-table/static . . . . .	231
mac-group. . . . .	233
monitor . . . . .	234
nas . . . . .	236
nas/auto-qos . . . . .	237
nas/server-ip . . . . .	239
nsx-controller . . . . .	241
nsx-controller/ip . . . . .	243
ntp . . . . .	245
ntp/authentication-key . . . . .	247
ntp/server. . . . .	249
openflow-controller . . . . .	251
overlay-gateway . . . . .	253
overlay-gateway/attach . . . . .	255
overlay-gateway/enable. . . . .	256
overlay-gateway/ip . . . . .	258
overlay-gateway/ipv6 . . . . .	260
overlay-gateway/mac. . . . .	261
overlay-gateway/map. . . . .	263
overlay-gateway/monitor . . . . .	265
overlay-gateway/site . . . . .	266
password-attributes . . . . .	268
password-attributes/character-restriction . . . . .	270
policy-map . . . . .	272
port-channel-redundancy-group . . . . .	274
port-channel-redundancy-group/port-channel . . . . .	275
port-profile . . . . .	277

port-profile-domain	280
preprovision	282
protocol	284
protocol/cdp	286
protocol/edge-loop-detection	287
protocol/lldp	289
protocol/spanning-tree	292
protocol/udld	294
qos	296
radius-server	299
rbridge-id	301
rbridge-id/{rbridge-number}/ag	304
rbridge-id/{rbridge-number}/arp	306
rbridge-id/{rbridge-number}/bp-rate-limit	308
rbridge-id/{rbridge-number}/chassis	309
rbridge-id/{rbridge-number}/clock	310
rbridge-id/{rbridge-number}/crypto	311
rbridge-id/{rbridge-number}/default-config	313
rbridge-id/{rbridge-number}/fabric	314
rbridge-id/{rbridge-number}/fcoe	317
rbridge-id/{rbridge-number}/fcsp	318
rbridge-id/{rbridge-number}/filter-change-update-delay	320
rbridge-id/{rbridge-number}/hardware-profile	322
rbridge-id/{rbridge-number}/interface	325
rbridge-id/{rbridge-id}/interface/ve/{vlan-id}/ip/ fabric-virtual-gateway	331
rbridge-id/{rbridge-id}/interface/ve/{vlan-id}/ipv6/ fabric-virtual-gateway	334
rbridge-id/{rbridge-number}/ip	337
rbridge-id/{rbridge-number}/ip/as-path	339
rbridge-id/{rbridge-number}/ip/community-list	341
rbridge-id/{rbridge-number}/ip/dhcp	343
rbridge-id/{rbridge-number}/ip/extcommunity-list	344
rbridge-id/{rbridge-number}/ip/import	346
rbridge-id/{rbridge-number}/ip/prefix-list	347
rbridge-id/{rbridge-number}/ip/route	349
rbridge-id/{rbridge-number}/ipv6	351
rbridge-id/{rbridge-number}/ipv6/import	353
rbridge-id/{rbridge-number}/ipv6/nd	354
rbridge-id/{rbridge-number}/ipv6/prefix-list	356
rbridge-id/{rbridge-number}/ipv6/protocol	358
rbridge-id/{rbridge-number}/ipv6/route	360
rbridge-id/{rbridge-number}/ipv6/router	363
rbridge-id/{rbridge-number}/linecard	368
rbridge-id/{rbridge-number}/logical-chassis	370
rbridge-id/{rbridge-number}/maps	372
rbridge-id/{rbridge-number}/openflow	374
rbridge-id/{rbridge-number}/protocol	376
rbridge-id/{rbridge-number}/qos	377
rbridge-id/{rbridge-number}/route-map	378
rbridge-id/{rbridge-number}/router	382
rbridge-id/{rbridge-number}/router/bgp	384

rbridge-id/{rbridge-number}/router/ospf	393
rbridge-id/{rbridge-number}/secpolicy	398
rbridge-id/{rbridge-number}/snmp-server	400
rbridge-id/{rbridge-number}/ssh	402
rbridge-id/{rbridge-number}/switch-attributes	404
rbridge-id/{rbridge-number}/system-monitor	405
rbridge-id/{rbridge-number}/telnet	408
rbridge-id/{rbridge-number}/threshold-monitor	410
rbridge-id/{rbridge-number}/vrf	415
reserved-vlan	418
rmon	420
rmon/alarm	421
rmon/event	423
role	425
router/fabric-virtual-gateway	427
service	429
sflow	431
sflow/collector	433
sflow-profile	435
snmp-server	436
snmp-server/community	438
snmp-server/context	440
snmp-server/enable	441
snmp-server/host	442
snmp-server/user	444
snmp-server/v3host	446
support	448
support/autoupload	450
support/autoupload-param	451
support/support-param	453
switch-attributes	454
system-monitor-mail	456
system-monitor-mail/fru	458
system-monitor-mail/interface	459
system-monitor-mail/relay	460
system-monitor-mail/security	462
system-monitor-mail/sfp	464
tacacs-server	465
username	467
vcs	469
vcs/virtual	470
vcs/virtual-fabric	472
vlan	473
vlan/classifier	474
vlan/dot1q	476
zoning	477
zoning/defined-configuration	478
zoning/enabled-configuration	481
Operational APIs	483
activate-status	484
bna-config-cmd	485
bna-config-cmd-status	486



dad-status	487
fcoe-get-interface	490
fcoe-get-login	491
firmware-download	492
fwdl-status	494
get-arp	496
get-contained-in-ID	498
get-flexports	499
get-interface-detail	501
get-interface-switchport	504
get-ip-interface	506
get-last-config-update-time	508
get-last-config-update-time-for-xpaths	509
get-lldp-neighbor-detail	510
get-mac-acl-for-intf	512
get-mac-address-table	513
get-media-detail	515
get-nameserver-detail	517
get-netconf-client-capabilities	519
get-port-channel-detail	521
get-port-profile-for-intf	523
get-port-profile-status	525
get-portchannel-info-by-intf	527
get-stp-brief-info	529
get-stp-mst-detail	532
get-system-uptime	536
get-vcs-details	537
get-vlan-brief	538
get-vmpolicy-macaddr	541
get-vnetwork-dvpgs	543
get-vnetwork-dvs	545
get-vnetwork-hosts	547
get-vnetwork-portgroups	550
get-vnetwork-vms	552
get-vnetwork-vswitches	555
l2traceroute	557
l2traceroute-result	558
logical-chassis-fwdl-sanity	559
logical-chassis-fwdl-status	561
maps-get-all-policy	563
maps-get-rules	564
no-vcs-rbridge-context	567
reload	568
set-http-application-url	569
show-bare-metal-state	570
show-clock	571
show-fibrechannel-interface-info	572
show-firmware-versions	573
show-linkinfo	575
show-ntp	576
show-portindex-interface-info	577
show-raslog	578

show-support-save-status .....	580
show-system-info .....	581
show-system-monitor .....	582
show-vcs .....	584
show-zoning-enabled-configuration .....	587
vcs-rbridge-config .....	588
vcs-rbridge-context .....	589

# Preface

---

## In this chapter

- [Document conventions](#) . . . . . xi
- [Brocade resources](#) . . . . . xii
- [Contacting Brocade Technical Support](#) . . . . . xiii
- [Document feedback](#) . . . . . xiv

## Document conventions

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

### Text formatting conventions

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

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

### Command syntax conventions

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

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

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

## Notes, cautions, and warnings

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

---

### NOTE

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

---



---

### ATTENTION

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

---



### CAUTION

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

---



### DANGER

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

---

## Brocade resources

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

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

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

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

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

## Contacting Brocade Technical Support

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

### Brocade customers

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

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

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

### Brocade OEM customers

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

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

## Document feedback

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

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

- Through the online feedback form in the HTML documents posted on [www.brocade.com](http://www.brocade.com).
- By sending your feedback to [documentation@brocade.com](mailto:documentation@brocade.com).

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

# About This Document

---

## In this chapter

- [How this document is organized](#) ..... xv
- [Supported hardware and software](#)..... xv
- [What's new in this document](#)..... xvi

## How this document is organized

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

The document contains the following components:

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

## Supported hardware and software

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

Although many different software and hardware configurations are tested and supported by Brocade Communications Systems, Inc. for Network OS 6.0.1, documenting all possible configurations and scenarios is beyond the scope of this document.

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

- Brocade VDX 2740

---

### NOTE

The Brocade VDX 2740 is the equivalent of the Lenovo Flex System EN4023 10Gb Scalable Switch. This platform is identified in the system as EN4023.

---

- Brocade VDX 2746
- Brocade VDX 6740
  - Brocade VDX 6740-48
  - Brocade VDX 6740-64

- Brocade VDX 6740T
  - Brocade VDX 6740T-48
  - Brocade VDX 6740T-64
  - Brocade VDX 6740T-1G
- Brocade VDX 6940-36Q
- Brocade VDX 6940-144S
- Brocade VDX 8770
  - Brocade VDX 8770-4
  - Brocade VDX 8770-8

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

## What's new in this document

This document is released in conjunction with Network OS 6.0.1.

### New APIs

- Configuration APIs
  - arp
  - hardware/custom-profile
  - interface/{interface-type}/{interface-name}/bfd
  - interface/{interface-type}/{interface-name}/ip/arp
  - interface/{interface-type}/{interface-name}/openflow
  - interface/ve/{vlan-id}/ip/fabric-virtual-gateway
  - interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway
  - interface/vlan/{vlan-number}/ip/arp
  - rbridge-id/{rbridge-id}/interface/ve/{vlan-id}/ip/fabric-virtual-gateway
  - rbridge-id/{rbridge-id}/interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway
  - rbridge-id/{rbridge-number}/ip/dhcp
  - rbridge-id/{rbridge-number}/maps
  - rbridge-id/{rbridge-number}/openflow
  - router/fabric-virtual-gateway
- Operational APIs
  - get-lldp-neighbor-detail
  - maps-get-all-policy
  - maps-get-rules
  - show-bare-metal-state

### Modified APIs



- interface/{interface-type}/{interface-name}/ip/ospf - New URI  
<base\_URI>/config/running/interface/{interface-type}/{interface-name}/ip/ospf/bfd was added.
- interface/{interface-type}/{interface-name}/ipv6/ospf - New URI  
<base\_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/ospf/bfd was added.
- ntp - The API call was modified to include the parameter *source-ip*.
- overlay-gateway/site - New URI <base\_URI>/config/running/overlay-gateway/{overlay-gateway name}/site/bfd was added.
- password-attributes - The API call was modified to include the parameter *max-lockout-duration*.
- rbridge-id/{rbridge-number}/ag - The API call was modified to include the parameter *enable*.
- rbridge-id/{rbridge-number}/fabric - New URI  
<base\_URI>/config/running/rbridge-id/{rbridge-number}/fabric/login-policy was added.
- rbridge-id/{rbridge-number}/hardware-profile - New URI  
<base\_URI>/config/running/rbridge-id/{rbridge-number}/hardware-profile/kap was added.
- rbridge-id/{rbridge-number}/interface - The API call was modified to include the parameter *receive* under  
<base\_URI>/config/running/rbridge-id/{rbridge-number}/interface/ve/{ve-number}/vrrp-extended-group/arp.
- rbridge-id/{rbridge-number}/ip/route - New URI  
<base\_URI>/config/running/rbridge-id/{rbridge-number}/ip/route/static/bfd was added.
- rbridge-id/{rbridge-number}/ipv6/router - The API call was modified to include the parameter *log* under *ospf* and *include-stub* under *max-metric*.
- rbridge-id/{rbridge-number}/route-map - New URI  
<base\_URI>/config/running/rbridge-id/{rbridge-number}/route-map/match was added.
- rbridge-id/{rbridge-number}/router/bgp -
  - New URI  
<base\_URI>/config/running/rbridge-id/{rbridge-number}/router/bgp/vrf/{vrf-name}/bfd was added.
  - The API call was modified to include the parameters *metric* and *route-map* under *bgp*.
  - The API call was modified to include the parameter *vrf-name* under  
<base\_URI>/config/running/rbridge-id/{rbridge-number}/router/bgp/vrf/{vrf-name}/address-family/ipv4/unicast.
- rbridge-id/{rbridge-number}/router/ospf - New URI  
<base\_URI>/config/running/rbridge-id/{rbridge-number}/router/ospf/vrf/{vrf-name}/bfd was added.
- rbridge-id/{rbridge-number}/ssh - The API call was modified to include the parameter *cipher* and *mac* under <base\_URI>/config/running/rbridge-id/{rbridge-number}/ssh/server and <base\_URI>/config/running/rbridge-id/{rbridge-number}/ssh/server.
- sflow - The API call was modified to include the parameter *source-ip*.

For further information about new features and documentation updates for this release, refer to the Network OS 6.0.1 release notes.



# Overview of the Network OS REST API

---

## In this chapter

- Network OS REST API ..... 1
- Resources ..... 2
- Protocol support ..... 4
- URIs ..... 4

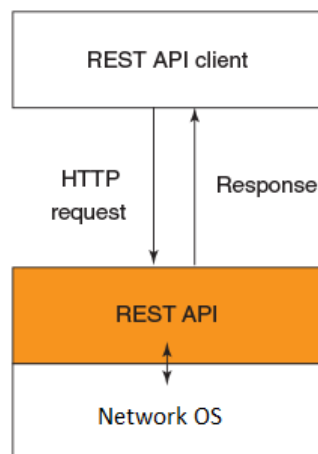
## Network OS REST API

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

- Fabric cluster
- Logical chassis cluster

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

**FIGURE 1** Network OS REST API architecture



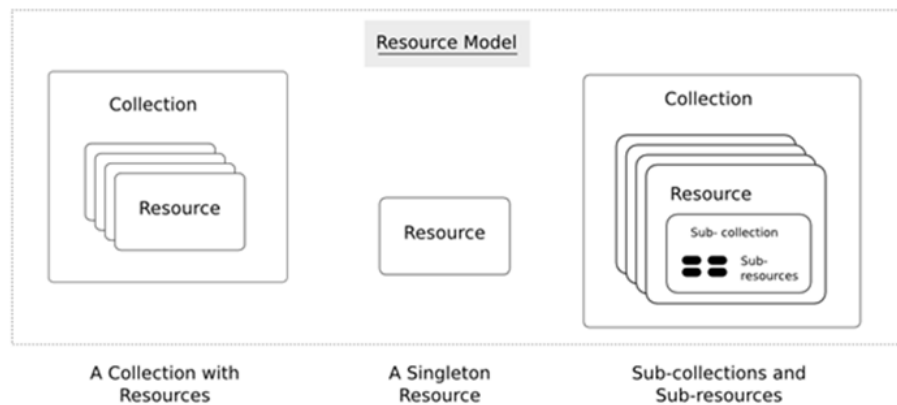
# Resources

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

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

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

**FIGURE 2** Resource model



The following three types of resources are supported to represent the configuration data and YANG-RPC operations:

- Base resource
- Configuration resource
- YANG-RPC Operations resource

## Base resource

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

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

The base resource consists of the following first-level child resources:

- Configuration resource (/config)
- YANG-RPC Operations resource (/operational-state)

## Configuration resource (/rest/config)

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

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

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

The YANG-RPC Operations resource represents the RPC commands defined in the YANG model using the YANG-RPC statement. The following child resources are supported:

- /get-arp
- /get-vlan-brief
- /get-interface-detail

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

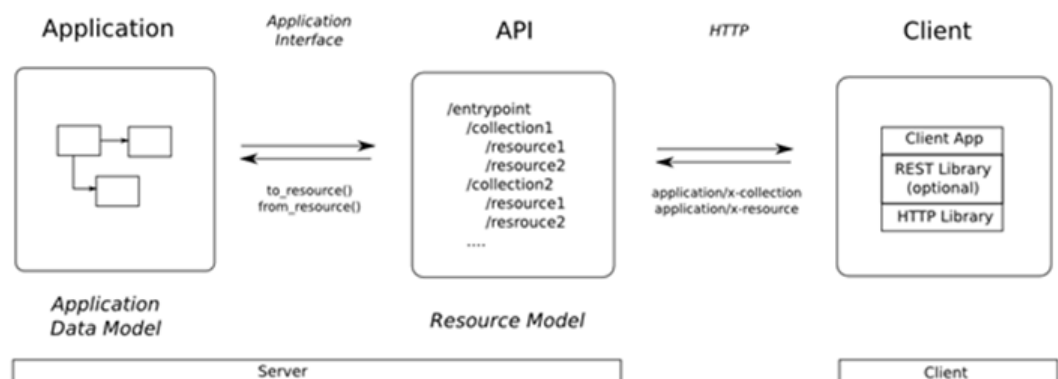
## Relationship of YANG and resource data models

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

- List: A "List" statement is a collection of resources that contains the same type of resources, which are ordered; the entries, such as the "Container" statement inside the "List" statement, are also a resource.
- Container: A "Container" statement in the YANG model is represented as singleton resource, or a group of resources of different types.
- Leaf: "Leaf" statements inside the "List" or "Container" resource are the attributes of the resources. A "Leaf" is a sub-resource of the "List" or "Container." That is, it cannot be identified without either the "List" or "Container" resource.

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

**FIGURE 3** YANG and Resource data model relationship



---

**NOTE**

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

---

## Protocol support

The Network OS REST API supports HTTP.

By default, the HTTP port number is 80.

## URIs

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

URIs consists of two parts:

- Base URI: The base URI is specific to the Network OS server. All URIs accessing the same server use the same base URI.
- Request URI: The request URI is the URI used to perform a GET, POST, PUT, PATCH, DELETE, HEAD or OPTIONS request.

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

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

---

**NOTE**

URIs are case-sensitive.

---

## URI structure

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

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

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

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

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

## URL Encoding

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

## Base URI

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

---

### NOTE

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

---

## Top-level URIs

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

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

# 1 URIs



# Using the Brocade Network OS REST API

---

## In this chapter

- [Before you begin](#) ..... 7
- [Logging in and out](#) ..... 7
- [Supported operations](#) ..... 7
- [XML resource representation](#) ..... 12
- [Media types](#) ..... 13
- [HTTP header](#) ..... 13
- [HTTP status code and messages](#) ..... 15

## Before you begin

Before you can use the Brocade Network OS REST API:

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

## Logging in and out

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

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

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

## Supported operations

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

### GET

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

## 2 Supported operations

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

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

The following response contains XML representation of the target resource.

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

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

---

### NOTE

A request payload is not required for a GET operation.

---

## POST

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

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

### Request header

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

Content-Length: 51

### Request message body

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

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

### Response

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

---

### NOTE

A request payload is required for a POST operation.

---

## PUT

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

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

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

### Request header

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

### Request message body

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

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

## 2 Supported operations

### Response

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

---

### NOTE

A request payload is required for a PUT operation.

---

## PATCH

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

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

### Request header

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

### Request message body

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

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

### Response

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

---

### NOTE

A request payload is required for a PATCH operation.

---

## DELETE

The DELETE method is used to delete the known resource.

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

### Request header

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

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

### Response

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

---

#### NOTE

An authorization header is required to perform a DELETE operation.

---

#### NOTE

A request payload is not required for a DELETE operation.

---

## HEAD

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

### Request header

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

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

### Response

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

---

#### NOTE

A request payload is not required for a HEAD operation.

---

### OPTIONS

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

#### Request header

```
OPTIONS /rest/config/running/mac/access-list/standard/testacl1 HTTP/1.1
Authorization: Basic YWRtaW46cGFzc3dvcnQ=
User-Agent:<REST client>
Host: 192.168.10.2:80
Accept: application/vnd.configuration.resource+xml
```

#### Response

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

---

#### NOTE

A request payload is not required for an OPTIONS operation.

---

## XML resource representation

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

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

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

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

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

## Media types

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

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

**TABLE 1** Media types

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

## HTTP header

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

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

**TABLE 2** Methods and supported media types

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

## Request header

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

**TABLE 3** Standard HTTP request header

Standard HTTP header
Cache-Control
Date
Authorization

**TABLE 3 Standard HTTP request header (Continued)**

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

**NOTE**

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

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

**TABLE 4 Header details**

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

## Response headers

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

**TABLE 5 HTTP response header**

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



**TABLE 5** HTTP response header (Continued)

Response header
Server
Status
WWW-Authenticate
Transfer-Encoding

## HTTP status code and messages

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

**TABLE 6** HTTP status code

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

## 2 HTTP status code and messages

# Use Cases

---

## In this chapter

- [Sample use cases for Network OS REST API](#)..... 17
- [LDAP server configuration](#) ..... 17
- [ACL configuration](#)..... 21

## Sample use cases for Network OS REST API

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

---

**NOTE**

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

---

## LDAP server configuration

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

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

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

---

**NOTE**

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

---

## Configuring LDAP

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

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

### *Adding an LDAP server*

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

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

#### **Sample request payload**

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

#### **Sample response header**

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

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

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

### *Setting the Active Directory parameters for the newly created server*

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

<BASE\_URI>/config/running/ldap-server/host/test\_API

#### **Sample request payload**

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

#### **Sample response header**

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

```
< HTTP/1.1 100 Continue
< HTTP/1.1 204 No Content
```

```
< Date: Tue, 24 Jun 2014 11:03:55 GMT
< Server: NOS Wave WWW
< Cache-control: private, no-cache, must-revalidate, proxy-revalidate
< Content-Length: 0
< Content-Type: text/html
< Connection: close
```

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

### ***Retrieving the LDAP server information***

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

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

There is no request payload for a GET operation.

### **Sample response header**

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

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

### **Sample response body**

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

### *Updating the Active Directory parameter values*

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

<BASE\_URI>/config/running/ldap-server/host/test\_API

#### **Sample request payload**

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

#### **Sample response header**

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

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

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

### *Removing an LDAP server*

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

<BASE\_URI>/config/running/ldap-server/host/test\_API

There is no request payload for a DELETE operation.

#### **Sample response header**

The following is an example response header on successful operation.

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

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

## ACL configuration

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

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

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

---

### NOTE

Only few sample configurations are given in this section.

---

## Creating a standard MAC ACL

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

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

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

### Sample request payload

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

### Sample response header

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

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

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

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

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

### Sample request payload

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

## 3 ACL configuration

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

### Sample response header

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

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

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

## Applying a MAC ACL to a VLAN interface

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

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

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

### Sample request payload

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

### Sample response header

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

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

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



## Modifying MAC ACL rules

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

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

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

## Removing a MAC ACL

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

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

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

### 3 ACL configuration

# API Reference

---

## In this chapter

- [Configuration APIs](#) ..... 25
- [Operational APIs](#) ..... 483

## Configuration APIs

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

### aaa

Configures, modifies, or retrieves AAA server configuration.

#### *Resource URIs*

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

#### *Parameters*

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

#### *Usage guidelines*

GET, OPTIONS, and HEAD operations are supported.

#### *Examples*

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

##### URI

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

##### Request body

None

##### Response body

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

#### *History*

Release version	History
5.0.0	The API call was introduced.

## aaa/accounting

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

### Resource URIs

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

### Parameters

Name	Description
server-type	The following server types can be set: <ul style="list-style-type: none"> <li>• none - Disable accounting</li> <li>• tacacs+ - Use TACACS+ servers</li> </ul>

### Usage guidelines

GET, OPTIONS, and HEAD operations are supported.

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

## 4 Configuration APIs

### *History*

Release version	History
5.0.0	The API call was introduced.

## aaa/authentication

Configures, modifies, or retrieves preferred order of authentication.

### Resource URIs

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

### Parameters

Name	Description
<i>login</i>	The type of server that will be used for authentication, authorization, and accounting (AAA) on the switch. The local server is the default.
<i>first</i>	The following server types can be set: <ul style="list-style-type: none"> <li>• ldap</li> <li>• radius</li> <li>• tacacs+</li> </ul>
<i>second</i>	The following server types can be set: <ul style="list-style-type: none"> <li>• local</li> <li>• local-auth-fallback</li> </ul>

### Usage guidelines

GET, OPTIONS, and HEAD operations are supported.

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

## 4 Configuration APIs

### *History*

Release version	History
5.0.0	The API call was introduced.



## alias-config

Configures, modifies, or retrieves alias configuration.

### Resource URIs

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

### Parameters

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

### Usage guidelines

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

#### NOTE

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

### History

Release version	History
5.0.0	The API call was introduced.

## alias-config/alias

Configures, modifies, or retrieves global alias configuration.

### Resource URIs

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

### Parameters

Name	Description
<i>name</i>	The global or user alias name or user name
<i>expansion</i>	The global or user alias expansion

### Usage guidelines

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

#### NOTE

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

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

#### URI

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

#### Request body

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

#### Response body

None

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

**URI**

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

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## alias-config/user

Configures, modifies, or retrieves user alias configuration.

### Resource URIs

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

### Parameters

Name	Description
<i>name</i>	The global or user alias name or user name
<i>expansion</i>	The global or user alias expansion

### Usage guidelines

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

#### NOTE

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

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

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

**URI**

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

**Request body**

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

**Response body**

None

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

**URI**

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

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## arp

Configures, modifies, or retrieves the ARP configuration.

### Resource URIs

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

### Parameters

Name	Description
<i>acl-name</i>	Access list name
<i>ip-type</i>	IP address type
<i>host-ip</i>	Host IP address
<i>mac</i>	MAC address type
<i>host-mac</i>	Host MAC address
<i>log</i>	Log packet

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<arp xmlns="urn:brocade.com:mgmt:brocade-dai"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/arp">
  <access-list y:self="/rest/config/running/arp/access-list/acl">
    <acl-name>acl</acl-name>
    <permit y:self="/rest/config/running/arp/access-list/acl/permit">
      <ip
y:self="/rest/config/running/arp/access-list/acl/permit/ip/host%2C21.22.25.65%2C
host%2C0011.1122.2233">
```

```
<ip-type>host</ip-type>
<host-ip>21.22.25.65</host-ip>
<mac>host</mac>
<host-mac>0011.1122.2233</host-mac>
<log>true</log>
</ip>
</permit>
</access-list>
</arp>
```

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

**URI**

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

**Request body**

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

**Response body**

None

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

**URI**

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

**Request body**

None

**Response body**

None

***History***

Release version	History
6.0.1	The API call was introduced.

## banner

Configures, modifies, or retrieves banner messages.

### Resource URIs

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

### Parameters

Name	Description
<i>login</i>	Login banner text
<i>motd</i>	Message of the day banner
<i>incoming</i>	Set incoming terminal line banner

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

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

#### URI

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

#### Request body

None



**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## cee-map

Configures, modifies, or retrieves CEE map commands.

### Resource URIs

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

### Parameters

Name	Description
<i>name</i>	CEE map name
<i>precedence</i>	Precedence value
<i>priority-group-table</i>	Configures Priority group table
<i>priority-table</i>	Configures priority table
<i>remap</i>	Configures Class of Service (CoS) to be remapped

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

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

### *History*

Release version	History
5.0.0	The API call was introduced.

## cee-map/priority-group-table

Configures, modifies, or retrieves priority group table configuration.

### Resource URIs

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

### Parameters

Name	Description
<i>priority-group-table</i>	Priority group table (PGID 0-7, 15.0-15.7)
<i>weight</i>	Percentage of bandwidth; PDID 0-7
<i>pf</i>	Per-priority flow control: <ul style="list-style-type: none"> <li>• on (enabled)</li> <li>• off (disabled)</li> </ul>

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<priority-group-table
y:self="/rest/config/running/cee-map/default/priority-group-table/1">
  <PGID>1</PGID>
  <weight>12</weight>
  <pf>on</pf>
</priority-group-table>
<priority-group-table
y:self="/rest/config/running/cee-map/default/priority-group-table/15.0">
  <PGID>15.0</PGID>
  <pf>off</pf>
</priority-group-table>
<priority-group-table
y:self="/rest/config/running/cee-map/default/priority-group-table/2">
  <PGID>2</PGID>
  <weight>60</weight>
  <pf>off</pf>
```

```
</priority-group-table>
```

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

**URI**

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

**Request body**

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

**Response body**

None

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

**URI**

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

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## cee-map/priority-table

Configures, modifies, or retrieves priority table configuration.

### Resource URIs

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

### Parameters

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

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

### History

Release version	History
5.0.0	The API call was introduced.

## cee-map/remap

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

### Resource URIs

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

### Parameters

Name	Description
<i>fabric-priority</i>	CoS for fabric priority
<i>lossless-priority</i>	CoS for lossless priority
<i>priority</i>	Fabric-priority or lossless-priority remapped CoS value

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

### History

Release version	History
5.0.0	The API call was introduced.

## class-map

Configures, modifies, or retrieves class map configurations.

### *Resource URIs*

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

### *Parameters*

Name	Description
<i>name</i>	Class map name
<i>access-group-name</i>	Name for the access list

### *Usage guidelines*

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

### *Examples*

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

#### URI

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

#### Request body

None

#### Response body

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



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

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

#### URI

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

#### Request body

None

#### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## diag

Configures, modifies, or retrieves diagnostics configurations.

### Resource URIs

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

### Parameters

Name	Description
<i>rbridge-id</i>	The RBridge ID
<i>enable</i>	Enables power-on self-test (POST)

### Usage guidelines

GET, OPTIONS, and HEAD operations are supported.

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

## *History*

Release version	History
5.0.0	The API call was introduced.

## dot1x

Configures, modifies, or retrieves dot1x configurations.

### Resource URIs

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

### Parameters

Name	Description
enable	Enables global port authentication
timeout	Timeout for dot1x readiness check

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

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

#### URI

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

#### Request body

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

**Response body**

None

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

**URI**

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

**Request body**

None

**Response body**

None

***History***

---

Release version	History
5.0.0	The API call was introduced.

---

## dpod

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

### Resource URIs

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

### Parameters

Name	Description
<i>operation</i>	The following operations are allowed: <ul style="list-style-type: none"> <li>• reserve</li> <li>• release</li> </ul>
<i>port-id</i>	The port ID in rbridge-id/slot/port

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

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

**URI**

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

**Request body**

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

**Response body**

None

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

**URI**

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

**Request body**

None

**Response body**

None

***History***

---

Release version	History
5.0.0	The API call was introduced.

---

## fabric

Configures, modifies, or retrieves fabric-related parameters.

### Resource URIs

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

### Parameters

Name	Description
rbridge-id	The RBridge ID
priority	Multicast priority value of the switch

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<fabric xmlns="urn:brocade.com:mgmt:brocade-fabric-service"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/fabric">
  <route y:self="/rest/config/running/fabric/route">
    <mcast y:self="/rest/config/running/fabric/route/mcast">
      <rbridge-id
y:self="/rest/config/running/fabric/route/mcast/rbridge-id/54">
        <rbridge-id>54</rbridge-id>
        <priority>58</priority>
      </rbridge-id>
      <rbridge-id
y:self="/rest/config/running/fabric/route/mcast/rbridge-id/55">
        <rbridge-id>55</rbridge-id>
        <priority>30</priority>
      </rbridge-id>
      <rbridge-id
y:self="/rest/config/running/fabric/route/mcast/rbridge-id/122">
        <rbridge-id>122</rbridge-id>
        <priority>255</priority>
    </mcast>
  </route>
</fabric>
```



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

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

**URI**

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

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## fcoe

Configures, modifies, or retrieves FCoE configuration commands.

### Resource URIs

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

### Parameters

Name	Description
<i>fcoe-fabric-map-name</i>	Fabric-map name.
<i>priority</i>	Priority for the FCoE Fabric-map
<i>vlan</i>	The VLAN for the FCoE Fabric-map
<i>virtual-fabric</i>	This specifies the Virtual Fabric ID for the Fabric-map
<i>fcf-group</i>	Configures the fcf-group for an FCoE Fabric-map
<i>interval</i>	Advertisement interval for the FCoE Fabric-map mode
<i>keep-alive</i>	Sets the interval for KEEPALIVE messages
<i>timeout</i>	Sets the timeout for KEEPALIVE messages
<i>fif-rbid</i>	FCF's RBridge ID in the FCF map

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

```

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

```

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

#### URI

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

#### Request body

None

#### Response body

None

### *History*

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

## hardware

Configures, modifies, or retrieves the hardware management configuration.

### Resource URIs

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

### Parameters

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

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

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

## *History*

Release version	History
5.0.0	The API call was introduced.

## hardware/connector

Configures, modifies, or retrieves the hardware connector configuration.

### Resource URIs

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

### Parameters

Name	Description
<i>name</i>	Interface name
<i>breakout</i>	Displays the QSFP port breakout configurations

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

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

#### URI

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

#### Request body

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

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## hardware/connector-group

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

### Resource URIs

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

### Parameters

Name	Description
<i>id</i>	Interface name in [rbridge-id]/slot/port format
<i>speed</i>	Configure the speed of the connector group: <ul style="list-style-type: none"> <li>HighMixed</li> <li>LowMixed</li> </ul>

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

### History

Release version	History
5.0.0	The API call was introduced.



## hardware/custom-profile

Configures, modifies, or retrieves the customized hardware profiles.

### Resource URIs

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

### Parameters

Name	Description
<i>name</i>	Profile name
<i>hello-interval</i>	Hello interval
<i>num-entry</i>	Number of keep alive entries

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<custom-profile xmlns="urn:brocade.com:mgmt:brocade-hardware"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/hardware/custom-profile">
  <kap y:self="/rest/config/running/hardware/custom-profile/kap/kap1">
    <name>kap1</name>
    <lacp y:self="/rest/config/running/hardware/custom-profile/kap/kap1/lacp">
      <hello-interval>1000</hello-interval>
      <num-entry>42</num-entry>
    </lacp>
    <xstp y:self="/rest/config/running/hardware/custom-profile/kap/kap1/xstp">
      <hello-interval>2000</hello-interval>
      <num-entry>40</num-entry>
    </xstp>
    <rpvst y:self="/rest/config/running/hardware/custom-profile/kap/kap1/rpvst">
      <hello-interval>2500</hello-interval>
      <num-entry>100</num-entry>
    </rpvst>
    <udld y:self="/rest/config/running/hardware/custom-profile/kap/kap1/udld">
      <hello-interval>500</hello-interval>
    </udld>
  </kap>
</custom-profile>
```

## 4 Configuration APIs

```
        <num-entry>45</num-entry>
      </udld>
    <bfd-vxlan
y:self="/rest/config/running/hardware/custom-profile/kap/kap1/bfd-vxlan">
      <hello-interval>500</hello-interval>
      <num-entry>5</num-entry>
    </bfd-vxlan>
    <bfd-13
y:self="/rest/config/running/hardware/custom-profile/kap/kap1/bfd-13">
      <hello-interval>600</hello-interval>
      <num-entry>400</num-entry>
    </bfd-13>
    <fcoe y:self="/rest/config/running/hardware/custom-profile/kap/kap1/fcoe">
      <hello-interval>2</hello-interval>
      <num-entry>64</num-entry>
    </fcoe>
  </kap>
</custom-profile>
```

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

### URI

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

### Request body

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

### Response body

None

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

### URI

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

### Request body

None

### Response body

None

## *History*

Release version	History
6.0.1	The API call was introduced.

## hardware/flexport

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

### Resource URIs

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

### Parameters

Name	Description
<i>id</i>	Interface name in [rbridge-id]/slot/port format
<i>type</i>	The type to be configured

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

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

#### URI

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

#### Request body

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

#### Response body

None

## 4 Configuration APIs

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

### URI

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

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## hardware/port-group

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

### Resource URIs

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

### Parameters

Name	Description
<i>id</i>	Interface name in [rbridge-id]/slot/port format
<i>type</i>	The type to be configured
<i>port-group</i>	Configure a port group

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

### History

Release version	History
5.0.0	The API call was introduced.

## interface

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

### Resource URIs

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

### Parameters

Name	Description
<i>name</i>	VLAN interface number
<i>gve-name</i>	VE interface number
<i>name</i>	Interface name rbridge-id/port format- Applicable for management rbridge-id/slot/port format - Applicable for: Tengigabitethernet, Gigabitethernet, Hundredgigabitethernet, Fortygigabitethernet)
<i>cee</i>	Apply default CEE map 'default'
<i>load-balance</i>	Load balancing commands
<i>mtu</i>	Set MTU value to interface
<i>minimum-links</i>	Least number of operationally UP links to declare port-channel UP
<i>rspan-vlan</i>	Configure the VLAN as RSPAN VLAN
<i>bpdu-drop</i>	Drop received BPDUs. Refer to <a href="#">interface/{interface-type}/{interface-name}/bpdu-drop</a> for information
<i>channel-group</i>	LACP channel commands. Refer to <a href="#">interface/{interface-type}/{interface-name}/channel-group</a> for information
<i>description</i>	Interface-specific description
<i>dot1x</i>	IEEE 802.1X Port-Based Access Control. Refer to <a href="#">interface/{interface-type}/{interface-name}/dot1x</a> for information

Name	Description
<i>edge-loop-detection</i>	Enable edge-loop-detection on the selected interface. Refer to <a href="#">interface/{interface-type}/{interface-name}/edge-loop-detection</a> for information
<i>fabric</i>	Configure the Fabric Protocol parameters. Refer to <a href="#">interface/{interface-type}/{interface-name}/fabric</a> for information
<i>fcoeport</i>	Configure the port to be an FCoE port. Refer to <a href="#">interface/{interface-type}/{interface-name}/fcoeport</a> for information
<i>ip</i>	The Internet Protocol (IP). Refer to <a href="#">interface/{interface-type}/{interface-name}/ip</a> for information
<i>ipv6</i>	The Internet Protocol version 6 (IPv6). Refer to <a href="#">interface/{interface-type}/{interface-name}/ipv6</a> for information
<i>lACP</i>	LACP commands. Refer to <a href="#">interface/{interface-type}/{interface-name}/lACP</a> for information
<i>lldp</i>	The Link Layer Discovery Protocol (LLDP). Refer to <a href="#">interface/{interface-type}/{interface-name}/lldp</a> for information
<i>long-distance-isl</i>	Configure the link as long-distance-link. <ul style="list-style-type: none"> <li>• 2000 - 2000 meter distance link (Warning: It may disable other ISLs in the port group)</li> <li>• 5000 - 5000 meter distance link (Warning: It may disable other ISLs in the port group)</li> <li>• 10000 - 10,000 meter distance link (Warning: It may disable other ISLs in the port group)</li> <li>• 30000 - 30,000 meter distance link (Warning: It may disable other ISLs in the port group and DCB/FCoE capabilities will no longer be supported)</li> </ul> <b>Note:</b> Supported in tengigabitethernet only.
<i>mac</i>	Configure MAC parameters. Refer to <a href="#">interface/{interface-type}/{interface-name}/mac</a> for information
<i>mac-learning</i>	Configure MAC learning. Refer to <a href="#">interface/{interface-type}/{interface-name}/mac-learning</a> for information
<i>port-profile-port</i>	Set the interface to AMPP profile mode. Refer to <a href="#">interface/{interface-type}/{interface-name}/port-profile-port</a> for information
<i>priority-tag</i>	Configure 802.1p priority tagging. Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> </ul>
<i>qos</i>	Quality of Service (QoS). Refer to <a href="#">interface/{interface-type}/{interface-name}/qos</a> for information
<i>rmon</i>	Remote Monitoring Protocol (RMON). Refer to <a href="#">interface/{interface-type}/{interface-name}/rmon</a> for information
<i>deviceconnectivity</i>	Device connectivity to IP storage device
<i>service-policy</i>	Attach Input/Output policy map. Refer to <a href="#">interface/{interface-type}/{interface-name}/service-policy</a> for information
<i>sflow</i>	sFlow configuration. Refer to <a href="#">interface/{interface-type}/{interface-name}/sflow</a> for information

## 4 Configuration APIs

Name	Description
<i>shutdown</i>	Shut down the selected interface
<i>spanning-tree</i>	Spanning tree commands. Refer to <a href="#">interface/{interface-type}/{interface-name}/spanning-tree</a> for information
<i>speed</i>	Set speed informational parameter
<i>storm-control</i>	BUM Storm Control. Refer to <a href="#">interface/{interface-type}/{interface-name}/storm-control</a> for information
<i>switchport</i>	Set the switching characteristics of the Layer 2 interface. Refer to <a href="#">interface/{interface-type}/{interface-name}/switchport</a> for information
<i>track</i>	Track interface. Refer to <a href="#">interface/{interface-type}/{interface-name}/track</a> for information
<i>tunnel</i>	Tunneling parameters. Refer to <a href="#">interface/{interface-type}/{interface-name}/tunnel</a> for information
<i>udld</i>	UDLD commands. Refer to <a href="#">interface/{interface-type}/{interface-name}/udld</a> for information
<i>vlan</i>	VLAN commands. Refer to <a href="#">interface/{interface-type}/{interface-name}/vlan</a> for information
<i>vrf</i>	Assign VRF to this Ethernet interface. Refer to <a href="#">interface/{interface-type}/{interface-name}/vrf</a> for information
<i>vrrp-group</i>	Start VRRP configuration. Refer to <a href="#">interface/{interface-type}/{interface-name}/vrrp-group</a> for information
<i>private-vlan</i>	Configure VLAN as private VLAN. Refer to <a href="#">interface/vlan/{vlan-number}/private-vlan</a> for information
<i>transport-service</i>	Set t1sid for Transparent VLAN. Refer to <a href="#">interface/vlan/{vlan-number}/transport-service</a> for information
<i>vlag</i>	Virtual LAG. Refer to <a href="#">interface/port-channel/{port-channel-number}/vlag</a> for information

### *Usage guidelines*

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

### *Examples*

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

#### URI

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

#### Request body

None

#### Response body

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



```

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

```

## 4 Configuration APIs

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

## *History*

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

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

Configures, modifies, or retrieves BFD sessions.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/bfd	Creates a BFD session on this interface Supported interface types are: <ul style="list-style-type: none"> <li>• Port-channel</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/bfd/interval	Configures the BFD desired minimum transmit interval

### Parameters

Name	Description
<i>min-tx</i>	BFD desired minimum transmit interval in milliseconds
<i>min-rx</i>	BFD desired minimum receive interval in milliseconds
<i>multiplier</i>	BFD detection time multiplier
<i>shutdown</i>	Shut down the BFD session

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<bfd xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest "
y:self="/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/bfd">
  <interval
y:self="/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/bfd/interval">
    <min-tx>60</min-tx>
    <min-rx>60</min-rx>
    <multiplier>4</multiplier>
```

```

    </interval>
    <shutdown>>true</shutdown>
  </bfd>

```

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

#### URI

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

#### Request body

```

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

```

#### Response body

None

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

#### URI

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

#### Request body

None

#### Response body

None

### *History*

Release version	History
6.0.1	The API call was introduced.

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

Configures, modifies, or retrieves all drop received BPDUs.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/bpdu-drop	Drop received BPDUs Supported interface types are: <ul style="list-style-type: none"> <li>• Port-channel</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> </ul>

### Parameters

Name	Description
<i>enable</i>	Drop all STP/RSTP/MSTP and PVST/RPVST incoming BPDUs
<i>direction</i>	The following direction can be set: <ul style="list-style-type: none"> <li>• all - Drops all STP/RSTP/MSTP and PVST/RPVST BPDUs</li> <li>• rx - Drops all STP/RSTP/MSTP and PVST/RPVST incoming BPDUs</li> <li>• tx - Drops all STP/RSTP/MSTP and PVST/RPVST outgoing BPDUs</li> </ul>

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

## *History*

Release version	History
5.0.0	The API call was introduced.

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

Configures, modifies, or retrieves LACP channel commands.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/channel-group	LACP channel commands Supported interface types are: <ul style="list-style-type: none"> <li>FortyGigabitEthernet</li> <li>GigabitEthernet</li> <li>HundredGigabitEthernet</li> <li>TenGigabitEthernet</li> </ul>

### Parameters

Name	Description
<i>port-int</i>	Channel group number
<i>mode</i>	The mode of the port-channel: <ul style="list-style-type: none"> <li>active</li> <li>on</li> <li>passive</li> </ul>
<i>type</i>	The type of the port-channel: <ul style="list-style-type: none"> <li>brocade</li> <li>standard</li> </ul>

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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



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

**URI**

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

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/dot1x	IEEE 802.1X Port-Based Access Control Supported interface types are: <ul style="list-style-type: none"> <li>FortyGigabitEthernet</li> <li>GigabitEthernet</li> <li>HundredGigabitEthernet</li> <li>TenGigabitEthernet</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/dot1x/timeout	Sets the timeout parameter

### Parameters

Name	Description
<i>authentication</i>	Enable dot1x on a port
<i>port-control</i>	Port control commands
<i>protocol-version</i>	Set the protocol version
<i>quiet-period</i>	Quiet period in the HELD state
<i>reauthMax</i>	Number of reauthentication attempts before becoming unauthorized
<i>reauthentication</i>	Enable reauthentication on a port
<i>timeout</i>	Set a timeout parameter
<i>re-authperiod</i>	Reauthentication interval in seconds (default = 3600)
<i>server-timeout</i>	Server timeout in seconds (default = 30)
<i>supp-timeout</i>	Supplicant response timeout (default = 30)
<i>tx-period</i>	Transmission period in seconds (default = 30)

### Usage guidelines

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

#### NOTE

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

### Examples

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

#### URI

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

**Request body**

None

**Response body**

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

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

**URI**

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

**Request body**

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

**Response body**

None

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

**URI**

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

**Request body**

None

**Response body**

None

## 4 Configuration APIs

### *History*

Release version	History
5.0.0	The API call was introduced.

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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/edge-loop-detection	Enable edge-loop-detection on the selected interface Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> </ul>

### Parameters

Name	Description
port-priority	Set ELD-priority value to interface
vlan	Enable for specific VLAN on selected interface

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

## 4 Configuration APIs

### *History*

Release version	History
5.0.0	The API call was introduced.

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

Configures, modifies, or retrieves the Fabric Protocol parameters.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/fabric	Fabric Protocol parameters Supported interface types are: <ul style="list-style-type: none"> <li>FortyGigabitEthernet</li> <li>GigabitEthernet</li> <li>HundredGigabitEthernet</li> <li>TenGigabitEthernet</li> </ul> <b>Note:</b> GigabitEthernet supports neighbor discovery only.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/fabric/isl	Enables fabric isl status
<base_URI>/config/running/interface/{interface-type}/{interface-name}/fabric/neighbor-discovery	Enables neighbor discovery at this port
<base_URI>/config/running/interface/{interface-type}/{interface-name}/fabric/trunk	Enables fabric trunk status

### Parameters

Name	Description
<i>isl</i>	Fabric ISL status
<i>enable</i>	Enable fabric ISL status or fabric trunk status
<i>neighbor-discovery</i>	Neighbor discovery at this port
<i>disable</i>	Disable neighbor discovery at this port
<i>trunk</i>	Fabric trunk status

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

## 4 Configuration APIs

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

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

### URI

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

### Request body

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

### Response body

None

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

### URI

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

### Request body

None

### Response body

None

## *History*

Release version	History
5.0.0	The API call was introduced.



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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/fcoeport	Configure the port to be an FCoE port Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• FortyGigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> </ul>

### Parameters

Name	Description
fcoeport-map	Fabric-map name

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

### History

Release version	History
5.0.0	The API call was introduced.

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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip	The Internet Protocol (IP) Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• Management</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/access-group	Configures IP access group. Refer to <a href="#">interface/{interface-type}/{interface-name}/ip/access-group</a> for information.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/address	Sets the IP address of an interface. Refer to <a href="#">interface/{interface-type}/{interface-name}/ip/address</a> for information.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/arp	Configures ARP inspection. Refer to <a href="#">interface/{interface-type}/{interface-name}/ip/arp</a> for information.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/dhcp	Configures Dynamic Host Configuration Protocol (DHCP). Refer to <a href="#">interface/{interface-type}/{interface-name}/ip/dhcp</a> for information.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/icmp	Configures Internet Control Message Protocol (ICMP). Refer to <a href="#">interface/{interface-type}/{interface-name}/ip/icmp</a> for information.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/igmp	Configures Internet Group Management Protocol (IGMP). Refer to <a href="#">interface/{interface-type}/{interface-name}/ip/igmp</a> for information.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/ospf	Configures Open Shortest Path First (OSPF). Refer to <a href="#">interface/{interface-type}/{interface-name}/ip/ospf</a> for information.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/pim	Configures PIM. Refer to <a href="#">interface/{interface-type}/{interface-name}/ip/pim</a> for information.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/policy	Configures PBR. Refer to <a href="#">interface/{interface-type}/{interface-name}/ip/policy</a> for information.

## Parameters

Name	Description
<code>address</code>	IP address of the DHCP server
<code>policy</code>	PBR settings
<code>access-group</code>	IP access group
<code>ospf</code>	Open Shortest Path First (OSPF)
<code>icmp</code>	Internet Control Message Protocol(ICMP)
<code>dhcp</code>	Dynamic Host Configuration Protocol (DHCP)
<code>arp</code>	Configures Arp Inspection
<code>mtu</code>	Set IP MTU value to interface
<code>directed-broadcast</code>	Enable directed IP broadcasts forwarding
<code>proxy-arp</code>	Enable Proxy-ARP on the interface
<code>arp-aging-timeout</code>	Sets arp age timeout value to interface
<code>pim-sparse</code>	Sparse Mode (PIM-SM)
<code>pim</code>	Configures PIM
<code>multicast-boundary</code>	Set switch as multicast boundary
<code>igmp</code>	Internet Group Management Protocol (IGMP)

## Usage guidelines

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

## Examples

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

### URI

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

### Request body

None

### Response body

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

## 4 Configuration APIs

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

### *History*

Release version	History
5.0.0	The API call was introduced.

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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/access-group	Configures IP access group Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• Management</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>

### Parameters

Name	Description
<i>ip-access-list</i>	Access list name
<i>ip-direction</i>	Configures the IP direction. <ul style="list-style-type: none"> <li>• in - Ingress direction</li> <li>• out - Egress direction</li> </ul>

### Usage guidelines

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

#### NOTE

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<access-group xmlns="urn:brocade.com:mgmt:brocade-ip-access-list"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/acces
s-group/acl%2Cin">
  <ip-access-list>acl</ip-access-list>
  <ip-direction>in</ip-direction>
</access-group>
```

## 4 Configuration APIs

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

### URI

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

### Request body

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

### Response body

None

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

### URI

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

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/address	Sets the IP address of an interface Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• Management</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>

### Parameters

Name	Description
address	IP address of the DHCP server
ospf-ignore	OSPF active address on the specific interface

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

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

## 4 Configuration APIs

### URI

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

### Request body

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

### Response body

None

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

### URI

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

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.



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

Configures, modifies, or retrieves the ARP inspection.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/arp	Configures ARP inspection Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/arp/inspection	Sets the ARP inspection flag

### Parameters

Name	Description
trust	Sets the interface as trusted

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

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

## 4 Configuration APIs

### URI

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

### Request body

`<trust>true</trust>`

### Response body

None

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

### URI

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

### Request body

None

### Response body

None

### *History*

Release version	History
6.0.1	The API call was introduced.

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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/dhcp	Configures Dynamic Host Configuration Protocol (DHCP) Supported interface types are: <ul style="list-style-type: none"> <li>FortyGigabitEthernet</li> <li>GigabitEthernet</li> <li>HundredGigabitEthernet</li> <li>TenGigabitEthernet</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/dhcp/relay	Configures DHCP relay agent
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/dhcp/relay/servers	Configures DHCP servers

### Parameters

Name	Description
address	IP address of the DHCP server
use-vrf	VRF name of the DHCP server
gateway	Gateway address of the DHCP server

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

## 4 Configuration APIs

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

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

### URI

```
http://host:80/rest/config/running/interface/tengigabitethernet/%221/0/5%22/ip/d
hcp/relay
```

### Request body

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

### Response body

None

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

### URI

```
http://host:80/rest/config/running/interface/tengigabitethernet/%221/0/5%22/ip/d
hcp/relay/servers
```

### Request body

None

### Response body

None

## *History*

Release version	History
5.0.0	The API call was introduced.

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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/icmp	Configures Internet Control Message Protocol(ICMP) Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• Management</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>

### Parameters

Name	Description
<i>unreachable</i>	Prohibits routers from forwarding an Internet Control Message Protocol (ICMP) Destination Unreachable Code 3 (port unreachable) message on a point-to-point link back onto the ingress port
<i>redirect</i>	Enables redirect
<i>address-mask</i>	Enables ICMP address mask
<i>echo-reply</i>	Enables the generation of an Internet Control Message Protocol (ICMP) Echo Reply message
<i>rate-limiting</i>	Rate limit ICMP error messages

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

## 4 Configuration APIs

```
<address-mask>true</address-mask>
<rate-limiting>10</rate-limiting>
</icmp>
```

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

### URI

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

### Request body

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

### Response body

None

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

### URI

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

### Request body

None

### Response body

None

## *History*

Release version	History
5.0.0	The API call was introduced.

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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/igmp	Configures Internet Group Management Protocol (IGMP) Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• Management</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>

### Parameters

Name	Description
<i>last-member-query-interval</i>	Last member query interval
<i>query-interval</i>	Query interval
<i>query-max-response-time</i>	IGMP maximum query response time
<i>immediate-leave</i>	Removes a group from the IGMP table immediately when receiving a Leave Group request

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

## 4 Configuration APIs

```
<immediate-leave>true</immediate-leave>
</igmp>
```

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

### URI

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

### Request body

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

### Response body

None

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

### URI

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

### Request body

None

### Response body

None

## *History*

Release version	History
5.0.0	The API call was introduced.



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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/ospf	Configures Open Shortest Path First (OSPF) Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• Management</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/ospf/area	Configures OSPF areas
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/ospf/authentication-key	Configures authentication password
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/ospf/bfd	Sets BFD operation on this interface
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/ospf/database-filter	Filters OSPF LSA during synchronization and flooding
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/ospf/md5-authentication	Configures MD5 authentication parameters

### Parameters

Name	Description
<i>area</i>	Area address
<i>dead-interval</i>	OSPF dead interval
<i>hello-interval</i>	OSPF hello interval
<i>retransmit-interval</i>	OSPF retransmit interval
<i>transmit-delay</i>	OSPF transmit-delay
<i>key-activation-wait-time</i>	The activation wait time
<i>key-id</i>	MD5 authentication key ID
<i>key</i>	Key ID
<i>md5-authentication-key</i>	MD5 authentication key password
<i>cost</i>	Interface cost
<i>all-external</i>	Filter OSPF
<i>mtu-ignore</i>	Disable OSPF mtu
<i>network</i>	Interface type
<i>passive</i>	Passive information

Name	Description
<i>priority</i>	Router priority
<i>intf-bfd-enable</i>	Enables BFD operation mode

### *Usage guidelines*

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

### *Examples*

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

#### URI

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

#### Request body

None

#### Response body

```
<ospf xmlns="urn:brocade.com:mgmt:brocade-ospf"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/ospf"
>
  <area>1.1.1.1</area>
  <authentication-key
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/ospf/
authentication-key">
    </authentication-key>
    <dead-interval>550</dead-interval>
    <hello-interval>250</hello-interval>
    <retransmit-interval>500</retransmit-interval>
    <transmit-delay>1000</transmit-delay>
    <md5-authentication
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/ospf/
md5-authentication">
      <key-activation-wait-time>230</key-activation-wait-time>
      <key-id
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/ospf/
md5-authentication/key-id">
        <key-id>25</key-id>
        <key>2</key>
        <md5-authentication-key>$b24tbw==</md5-authentication-key>
      </key-id>
    </md5-authentication>
    <cost>550</cost>
    <database-filter
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/ospf/
database-filter">
      <all-external>allow-default-out</all-external>
    </database-filter>
    <mtu-ignore>true</mtu-ignore>
    <network>broadcast</network>
    <passive>true</passive>
    <priority>22</priority>
```

```
<bfd
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/ospf/
bfd">
  <intf-bfd-enable>true</intf-bfd-enable>
</bfd>
</ospf>
```

### *History*

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the new URI <base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/ospf/bfd.

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

Configures, modifies, or retrieves the PIM configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/pim	Configures PIM Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• Management</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>

### Parameters

Name	Description
tvl-threshold	Set TTL threshold
dr-priority	DR priority value

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<pim xmlns="urn:brocade.com:mgmt:brocade-pim"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ip/pim">
  <dr-priority>15</dr-priority>
  <tvl-threshold>10</tvl-threshold>
  <neighbor-filter>Prefix1</neighbor-filter>
</pim>
```

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

**URI**

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

**Request body**

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

**Response body**

None

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

**URI**

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

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

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

Configures, modifies, or retrieves the PBR configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/policy	Configures PBR Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• Management</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ip/policy/route-map	Enables PBR

### Parameters

Name	Description
route-map-name	Enables PBR

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

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

**URI**

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

**Request body**

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

**Response body**

None

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

**URI**

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

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6	The Internet Protocol version 6 (IPv6) Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• Management</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/access-group	Configures IPv6 access group. Refer to <a href="#">interface/{interface-type}/{interface-name}/ipv6/access-group</a> for information.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/address	Configures IPv6 address on an interface. Refer to <a href="#">interface/{interface-type}/{interface-name}/ipv6/address</a> for information.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/dhcp	Configures Dynamic Host Configuration Protocol V6 (DHCPv6). Refer to <a href="#">interface/{interface-type}/{interface-name}/ipv6/dhcp</a> for information.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/icmp6	Configures Internet Control Message Protocol(ICMP6). Refer to <a href="#">interface/{interface-type}/{interface-name}/ipv6/icmp6</a> for information.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/nd	Neighbor Discovery commands Refer to <a href="#">interface/{interface-type}/{interface-name}/ipv6/nd</a> for information.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/neighbor	Neighbor Discovery commands. Refer to <a href="#">interface/{interface-type}/{interface-name}/ipv6/neighbor</a> for information.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/ospf	Configures Open Shortest Path First version 3 (OSPFv3). Refer to <a href="#">interface/{interface-type}/{interface-name}/ipv6/ospf</a> for information.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/policy	Configures PBR. Refer to <a href="#">interface/{interface-type}/{interface-name}/ipv6/policy</a> for information.
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/vrrp-group	Starts vrrpv3 configuration. Refer to <a href="#">interface/{interface-type}/{interface-name}/ipv6/vrrp-group</a> for information.



## Parameters

Name	Description
<i>mtu</i>	Set IPv6 MTU value to interface
<i>hop-by-hop-trap</i>	Enable hop-by-hop trap on an Interface
<i>rrp-suppress-interface-ra</i>	Suppress interface RA for VRRPv3
<i>raguard</i>	IPv6 router advertisement guard configuration

## Usage guidelines

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

## Examples

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

### URI

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

### Request body

None

### Response body

```
<ipv6 xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6">
  <hop-by-hop-trap>true</hop-by-hop-trap>
  <rrp-suppress-interface-ra>true</rrp-suppress-interface-ra>
  <access-group xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/access-group/acl1%2Cin"/>
    <neighbor xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/neighbor/2004:384::21:22"/>
      <nd
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/nd"/>
        <policy xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/policy"/>
          <dhcp xmlns="urn:brocade.com:mgmt:brocade-dhcpv6"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/dhcp"/>
            <address xmlns="urn:brocade.com:mgmt:brocade-ipv6-config"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/address"/>
              <mtu>1281</mtu>
              <raguard xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">true</raguard>
              <icmpv6 xmlns="urn:brocade.com:mgmt:brocade-icmp"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/icmpv6"/>
```

## 4 Configuration APIs

```
<ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/osp
f"/>
  <vrrpv3e-group
y:self="/rest/config/running/TenGigabitEthernet/%22195/1/7%22/vrrpv3-group"/>
</ipv6>
```

### *History*

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

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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/access-group	Configures IPv6 access group Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• Management</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>

### Parameters

Name	Description
ipv6-access-list	Access list name
ip-direction	Specifies the IP direction. <ul style="list-style-type: none"> <li>• in - Ingress direction</li> <li>• out - Egress direction</li> </ul>

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<access-group xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/access-group/acl1%2Cin">
  <ipv6-access-list>acl1</ipv6-access-list>
  <ip-direction>in</ip-direction>
</access-group>
```

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

## 4 Configuration APIs

### URI

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

### Request body

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

### Response body

None

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

### URI

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

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/address	Configures IPv6 address on an interface Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• Management</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/address/ipv6-address	Configures IPv6 address

### Parameters

Name	Description
address	IPv6 address of the DHCPv6 server
use-link-local-only	Configures automatically computed link-local address

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

## 4 Configuration APIs

```
<use-link-local-only>true</use-link-local-only>
</address>
```

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

### URI

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

### Request body

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

### Response body

None

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

### URI

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

### Request body

None

### Response body

None

## *History*

Release version	History
5.0.0	The API call was introduced.

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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/dhcp	Configures Dynamic Host Configuration Protocol V6 (DHCPv6) Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• Management</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/dhcp/relay	Configures DHCPv6 relay agent
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/dhcp/relay/servers	Configures IPv6 address of the DHCPv6 server

### Parameters

Name	Description
address	IPv6 address
use-vrf	VRF name
interface	Interface type

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

## 4 Configuration APIs

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

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

### URI

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

### Request body

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

### Response body

None

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

### URI

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

### Request body

None

### Response body

None

## *History*

Release version	History
5.0.0	The API call was introduced.



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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/icmpv6	Configures Internet Control Message Protocol(ICMP6) Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• Management</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>

### Parameters

Name	Description
<i>echo-reply</i>	Enables echo-reply
<i>rate-limiting</i>	Configures rate limit ICMP error messages
<i>unreachable</i>	Enables destination unreachable messages
<i>redirect</i>	Enables redirect

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

## 4 Configuration APIs

```
<redirect>true</redirect>
</icmpv6>
```

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

### URI

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

### Request body

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

### Response body

None

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

### URI

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

### Request body

None

### Response body

None

## *History*

Release version	History
6.0.1	The API call was introduced.

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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/nd	Neighbor Discovery commands Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• Management</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/nd/suppress-ra	Sets suppress ra flag
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/nd/ra-interval	Configures interval between router advertisements
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/nd/dad	Configures duplicate address detection
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/nd/prefix	Configures IPv6 prefix
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/nd/cache	Configures the time interval after which the cache id deleted or refreshed

### Parameters

Name	Description
<i>managed-config-flag</i>	Sets managed config flag in router advertisement
<i>other-config-flag</i>	Sets other config flag in router advertisement
<i>ra-lifetime</i>	Router lifetime in router advertisement
<i>reachable-time</i>	The duration node is considered reachable, sent in RA messages
<i>mtu</i>	MTU to be advertised in RA
<i>retrans-timer</i>	Configures RA retransmission timer, Sent in RA messages
<i>hoplimit</i>	Configures Hop Limit to be advertised in RA
<i>ns-interval</i>	Configures Interval between Neighbor solicitations
<i>proxy</i>	Enables proxy setting
<i>all</i>	Suppress response to RS in addition to not sending Ras
<i>max-interval</i>	Maximum interval between Router advertisements
<i>min</i>	Minimum interval between between Router advertisements
<i>attempts</i>	Configures the number of Neighbor solicitations to send as part of duplicate address detection

## 4 Configuration APIs

Name	Description
<i>time</i>	Configures retransmit time interval for Neighbor solicitations, sent as part of duplicate address detection
<i>prefix-ipv6-address</i>	Specifies the IPv6 prefix address
<i>infinite</i>	Infinite valid lifetime
<i>preferred-lifetime</i>	Valid lifetime in seconds
<i>expire</i>	Configures the time-interval after which the cache is deleted or refreshed
<i>broadcast-mac-trap</i>	Enables the trap for all the ipv6 packets with broadcast mac

### *Usage guidelines*

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

### *Examples*

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

#### URI

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

#### Request body

None

#### Response body

```
<nd xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/nd"
>
  <managed-config-flag>true</managed-config-flag>
  <other-config-flag>true</other-config-flag>
  <ra-lifetime>1900</ra-lifetime>
  <reachable-time>1</reachable-time>
  <mtu>1600</mtu>
  <retrans-timer>2</retrans-timer>
  <hoplimit>65</hoplimit>
  <ns-interval>2</ns-interval>
  <proxy>true</proxy>
  <suppress-ra
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/nd/
suppress-ra">
    <all>true</all>
  </suppress-ra>
  <ra-interval
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/nd/
ra-interval">
    <max-interval>650</max-interval>
    <min>250</min>
  </ra-interval>
  <dad
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/nd/
dad">
    <attempts>3</attempts>
```

```

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

```

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

#### URI

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

#### Request body

```

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

```

#### Response body

None

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

#### URI

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

#### Request body

None

#### Response body

None

### History

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

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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/neighbor	Neighbor Discovery commands Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• Management</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>

### Parameters

Name	Description
ipv6-address	Display assigned neighbor IPv6 addresses
hardware-address	MAC address

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

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

**URI**

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

**Request body**

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

**Response body**

None

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

**URI**

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

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/ospf	Configures Open Shortest Path First version 3 (OSPFv3) Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• Management</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/ospf/bfd	Sets BFD operation mode on this interface
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/ospf/authentication	Configures authentication for this interface

### Parameters

Name	Description
<i>area</i>	Specifies OSPF area
<i>passive</i>	Enables passive information
<i>bfd-enable</i>	Enable BFD operation mode on this interface
<i>cost</i>	Specifies interface cost
<i>instance</i>	Configures Instance of OSPFv3 protocol on this interface
<i>mtu-ignore</i>	Disables OSPFv3 MTU mismatch detection
<i>network</i>	Specifies the interface type
<i>priority</i>	Configures interface priority
<i>suppress-linklsa</i>	Suppresses link LSA advertisements
<i>disable</i>	Disables ipsec authentication
<i>key-add-remove-interval</i>	Configures OSPFv3 authentication key add/remove interval
<i>hello-interval</i>	Configures time between HELLO packets
<i>dead-interval</i>	Configures interval after which a neighbor is declared dead
<i>hello-jitter</i>	Configures allowed jitter between HELLO packets
<i>retransmit-interval</i>	Configures time between retransmitting lost link state advertisements.
<i>transmit-delay</i>	Configures link state transmit delay



## Usage guidelines

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

## Examples

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

### URI

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

### Request body

None

### Response body

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

## 4 Configuration APIs

### *History*

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the new URI <base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/ospf/bfd.

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

Configures, modifies, or retrieves the IPv6 PBR.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/policy	Configures PBR Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• Management</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/policy/route-map	Enables PBR

### Parameters

Name	Description
route-map-name	Route map name

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

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

## 4 Configuration APIs

### URI

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

### Request body

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

### Response body

None

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

### URI

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

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

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

Configures, modifies, or retrieves the IPv6 VRRPv3 configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/ipv6/vrrp-group	Starts vrrpv3 configuration Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• Management</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>

### Parameters

Name	Description
<i>priority</i>	Interface priority
<i>vid</i>	Virtual router identifier
<i>virtual-ipaddr</i>	Virtual IPv4 address
<i>interface-type</i>	The interface type
<i>interface-name</i>	The interface name
<i>track-priority</i>	Track priority
<i>enable</i>	Enable session
<i>hold-time</i>	Configure hold time for this session
<i>preempt-mode</i>	Set preempt mode for the session
<i>description</i>	Characters describing this interface
<i>advertise-backup</i>	Enable periodic backup advertisement messages
<i>broadcast-mac-trap</i>	Enable the trap for all the IPv6 packets with broadcast MAC
<i>nd-advertisement-timer</i>	Neighbor discovery advertisement
<i>advertisement-interval-scale</i>	IPv4 session advertisement interval scale factor
<i>backup-advertisement-interval</i>	Set backup advertisement interval
<i>vrrp-advertisement-interval</i>	VRRP advertisement interval
<i>revert-priority</i>	Set revert priority

### Usage guidelines

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

## Examples

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

### URI

http://host:80/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/ipv6/vrrpv3-group

### Request body

None

### Response body

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

## History

Release version	History
5.0.0	The API call was introduced.

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

Configures, modifies, or retrieves LACP commands.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/lACP	LACP commands Supported interface types are: <ul style="list-style-type: none"> <li>FortyGigabitEthernet</li> <li>GigabitEthernet</li> <li>HundredGigabitEthernet</li> <li>TenGigabitEthernet</li> </ul>

### Parameters

Name	Description
timeout	The following timeout value can be set: <ul style="list-style-type: none"> <li>long - Set LACP long timeout</li> <li>short - Set LACP short timeout</li> </ul>
std_port-priority	LACP port priority
default-up	To bring up the interface in LACP default state

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

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

## 4 Configuration APIs

### URI

`http://host:80/rest/config/running/interface/tengigabitethernet/%221/0/5%22/lacp`

### Request body

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

### Response body

None

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

### URI

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

### Request body

None

### Response body

None

## *History*

Release version	History
5.0.0	The API call was introduced.



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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/lldp	The Link Layer Discovery Protocol (LLDP) Supported interface types are: <ul style="list-style-type: none"> <li>FortyGigabitEthernet</li> <li>GigabitEthernet</li> <li>HundredGigabitEthernet</li> <li>TenGigabitEthernet</li> </ul>

### Parameters

Name	Description
<i>dcbx-version</i>	Set up DCBX version
<i>disable</i>	Disable LLDP on the Interface.
<i>iscsi-priority</i>	Configure the Ethernet priority to advertise for iSCSI on this interface
<i>profile</i>	The LLDP profile on the interface

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

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

## 4 Configuration APIs

### URI

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

### Request body

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

### Response body

None

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

### URI

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

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

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

Configures, modifies, or retrieves MAC parameters.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/mac	MAC parameters Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/mac/access-group	Configures MAC access group

### Parameters

Name	Description
mac-access-list	Access list name
mac-direction	<ul style="list-style-type: none"> <li>• in - Ingress direction</li> <li>• out - Egress direction</li> </ul>

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

## 4 Configuration APIs

### *History*

Release version	History
5.0.0	The API call was introduced.

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

Configures, modifies, or retrieves MAC learning.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/mac-learning	MAC learning Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/mac-learning/disable	MAC learning disable
<base_URI>/config/running/interface/{interface-type}/{interface-name}/mac-learning/disable/vlan	VLAN range for which MAC learning need to be disabled

### Parameters

Name	Description
add	Range of VLANs to add
remove	Range of VLANs to remove

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

## 4 Configuration APIs

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

### *History*

Release version	History
5.0.0	The API call was introduced.

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

Configures, modifies, or retrieves the OpenFlow configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/openflow	Configures OpenFlow Supported interface types are: <ul style="list-style-type: none"> <li>FortyGigabitEthernet</li> <li>GigabitEthernet</li> <li>HundredGigabitEthernet</li> <li>TenGigabitEthernet</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/openflow/openflow-enable	Enables OpenFlow

### Parameters

Name	Description
enable	Enables OpenFlow
match-profile	OpenFlow match profile

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<openflow xmlns="urn:brocade.com:mgmt:brocade-openflow"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/openflow">
  <logical-instance-id>1</logical-instance-id>
  <openflow-enable
y:self="/rest/config/running/interface/TenGigabitEthernet/%221/0/5%22/openflow/openflow-enable">
    <enable>true</enable>
    <match-profile>Layer2</match-profile>
  </openflow-enable>
</openflow>
```

## 4 Configuration APIs

### *History*

Release version	History
6.0.1	The API call was introduced.



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

Configures, modifies, or retrieves the interface set to AMPP profile mode.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/port-profile-port	Set the interface to AMPP profile mode Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/port-profile-port/domain	Associate a port profile domain

### Parameters

Name	Description
profile-domain-name	Port-profile domain name

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<port-profile-port xmlns="urn:brocade.com:mgmt:brocade-port-profile"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/port-profile-port">
  <domain
y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/port-profile-port/domain">
    <profile-domain-name>default</profile-domain-name>
  </domain>
</port-profile-port>
```

## 4 Configuration APIs

### *History*

Release version	History
5.0.0	The API call was introduced.

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

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

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/qos	Quality of Service (QoS) Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/qos/drop-monitor	Configure QoS drop monitor polling
<base_URI>/config/running/interface/{interface-type}/{interface-name}/qos/flowcontrol	Configures flowcontrol
<base_URI>/config/running/interface/{interface-type}/{interface-name}/qos/random-detect	Configures Random Early Detect (RED) profile

### Parameters

Name	Description
cos	Default Class of Service (CoS)
cos-mutation	CoS-to-CoS mutation
dscp-mutation	DSCP-to-COS map
dscp-cos	DSCP-to-COS map
dscp-traffic-class	DSCP-to-Traffic Class map
red-tc-value	Traffic class to configure RED on
drop-monitor-enable	Enable polling on RX/Tail and RED drops (in VDX 67**) on this interface
tx	Configures pause generation: <ul style="list-style-type: none"> <li>• off - Pause generation disabled</li> <li>• on - Pause generation enabled</li> </ul>
rx	Configures pause reception: <ul style="list-style-type: none"> <li>• off - Pause generation disabled</li> <li>• on - Pause generation enabled</li> </ul>

### Usage guidelines

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

### Examples

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

### URI

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

### Request body

None

### Response body

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/qos">
  <cos>1</cos>
  <cos-mutation>map1</cos-mutation>
  <dscp-mutation>map4</dscp-mutation>
  <dscp-cos>map3</dscp-cos>
  <dscp-traffic-class>map5</dscp-traffic-class>
  <random-detect
y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/qos/random-detect">
    <traffic-class
y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/qos/random-detect/traffic-class/2">
      <red-tc-value>2</red-tc-value>
    </traffic-class>
  </random-detect>
  <drop-monitor>
    <drop-monitor-enable>true</drop-monitor-enable>
  </drop-monitor>
  <flowcontrol
y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/qos/flowcontrol">
    <flowcontrolglobal>
      <tx>on</tx>
      <rx>on</rx>
    </flowcontrolglobal>
  </flowcontrol>
</qos>
```

### History

Release version	History
5.0.0	The API call was introduced.
6.0.0	The API was modified to include the parameter <i>drop-monitor-enable</i> under <i>drop-monitor</i> .

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

Configures, modifies, or retrieves Remote Monitoring Protocol (RMON).

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/rmon	Remote Monitoring Protocol (RMON) Supported interface types are: <ul style="list-style-type: none"> <li>FortyGigabitEthernet</li> <li>GigabitEthernet</li> <li>HundredGigabitEthernet</li> <li>TenGigabitEthernet</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/rmon/collection	Configures RMON ether collection
<base_URI>/config/running/interface/{interface-type}/{interface-name}/rmon/collection/stats	Configures RMON ether statistics collection
<base_URI>/config/running/interface/{interface-type}/{interface-name}/rmon/collection/history	Configures RMON ether history statistics collection

### Parameters

Name	Description
<i>ether-stats-index</i>	Statistics index
<i>owner</i>	Owner identity
<i>history-control-index</i>	History index
<i>buckets</i>	Buckets (default 50)
<i>interval</i>	Polling Interval (default 1800)

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

## 4 Configuration APIs

```
<rmon xmlns="urn:brocade.com:mgmt:brocade-rmon"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/rmon"
>
  <collection
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/rmon/
collection">
    <stats
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/rmon/
collection/stats/255">
      <ether-stats-index>255</ether-stats-index>
      <owner>admin</owner>
    </stats>
    <history
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/rmon/
collection/history/25">
      <history-control-index>25</history-control-index>
      <interval>2000</interval>
      <owner>admin</owner>
      <buckets>10</buckets>
    </history>
  </collection>
</rmon>
```

The following is an example of the POST operation to configure history statistics collection.

### URI

```
http://host:80/rest/config/running/interface/tengigabitethernet/%221/0/5%22/rmon
/collection
```

### Request body

```
<history>
  <history-control-index>25</history-control-index>
  <interval>2000</interval>
  <owner>admin</owner>
  <buckets>10</buckets>
</history>
```

### Response body

None

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

### URI

```
http://host:80/rest/config/running/interface/tengigabitethernet/%221/0/5%22/rmon
/collection/history
```

### Request body

None

### Response body

None

## *History*

Release version	History
5.0.0	The API call was introduced.

## interface/{interface-type}/{interface-name}/service-policy

Configures, modifies, or retrieves Input/Output policy map.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/service-policy	Attach Input/Output policy map Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> </ul>

### Parameters

Name	Description
<i>in</i>	Input policy map
<i>out</i>	Output policy map

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<service-policy xmlns="urn:brocade.com:mgmt:brocade-policer"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/service-policy">
  <in>polycymap1</in>
  <out>polycymap1</out>
</service-policy>
```

### History

Release version	History
5.0.0	The API call was introduced.



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

Configures, modifies, or retrieves sFlow configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/sflow	sFlow configuration Supported interface types are: <ul style="list-style-type: none"> <li>FortyGigabitEthernet</li> <li>GigabitEthernet</li> <li>HundredGigabitEthernet</li> <li>TenGigabitEthernet</li> </ul>

### Parameters

Name	Description
<i>enable</i>	Enable port sFlow
<i>polling-interval</i>	Interface counter polling interval
<i>sample-rate</i>	Interface sampling rate

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<sflow xmlns="urn:brocade.com:mgmt:brocade-sflow"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/sflow">
  <enable>true</enable>
  <polling-interval>25</polling-interval>
  <sample-rate>32760</sample-rate>
</sflow>
```

The following is an example of the DELETE operation to remove the polling-interval configuration.

## 4 Configuration APIs

### URI

`http://host:80/rest/config/running/interface/tengigabitethernet/%221/0/5%22/sflow/polling-interval`

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## interface/{interface-type}/{interface-name}/spanning-tree

Configures, modifies, or retrieves Spanning Tree Protocol commands.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/spanning-tree	Spanning tree commands Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• VLAN</li> </ul>

### Parameters

Name	Description
cost	Changes an interface's spanning-tree port path cost
bpdu-filter	Sets the edge port Bridge Protocol Data Unit (BPDU) filter for the port
bpdu-guard	Guards the port against the reception of BPDUs
portfastbasic	Enables the Port Fast feature on an interface to allow the interface to quickly transition to forwarding state
bpdu-mac	Sets the MAC address of the Bridge Protocol Data Unit (BPDU)
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
priority	Specifies the port priority for a bridge
link-type	Enables and disables the rapid transition for the Spanning Tree Protocol (STP)
restricted-role	Specifies to restrict the role of a port
restricted-tcn	Restricts the topology change notification Bridge Protocol Data Units (BPDUs) sent on the port
shutdown	Enables or disables spanning tree on the interface
id	Specifies the MSTP instance
autoedge	Enables automatic edge detection
hello-time	Configures the hello-time in seconds on the interface
edgeportbasic	Enables the edge port on an interface to allow the interface to quickly transition to the forwarding state

### Usage guidelines

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

## Examples

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

### URI

```
http://host:80/rest/config/running/interface/TenGigabitEthernet/%2214/1/9%22/spanning-tree
```

### Request body

None

### Response body

```

<spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/protocol/spanning-tree">
  <cost>50</cost>
  <portfast
y:self="/rest/config/running/interface/TenGigabitEthernet/%2214/1/9%22/spanning-
tree/portfast">
    <bpdu-filter>true</bpdu-filter>
    <portfastbasic>true</portfastbasic>
    <bpdu-guard>true</bpdu-guard>
  </portfast>
  <bpdu-mac>0100.0ccc.cccd</bpdu-mac>
  <guard
y:self="/rest/config/running/interface/TenGigabitEthernet/%2214/1/9%22/spanning-
tree/guard">
    <root>true</root>
  </guard>
  <autoedge>true</autoedge>
  <priority>240</priority>
  <hello-time>10</hello-time>
  <link-type>shared</link-type>
  <restricted-role>true</restricted-role>
  <restricted-tcn>true</restricted-tcn>
  <edgeport
y:self="/rest/config/running/interface/TenGigabitEthernet/%2214/1/9%22/spanning-
tree/edgeport">
    <bpdu-filter>true</bpdu-filter>
    <edgeportbasic>true</edgeportbasic>
    <bpdu-guard>true</bpdu-guard>
  </edgeport>
  <shutdown>true</shutdown>
  <instance xmlns="urn:brocade.com:mgmt:brocade-xstp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2214/1/9%22/spanning-
tree/instance/11">
    <id>11</id>
    <priority>240</priority>
    <cost>60</cost>
    <restricted-role>true</restricted-role>
    <restricted-tcn>true</restricted-tcn>
  </instance>
  <vlan xmlns="urn:brocade.com:mgmt:brocade-xstp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%2214/1/9%22/spanning-
tree/vlan/4000">
    <id>4000</id>

```

```
<priority>250</priority>
<cost>70</cost>
<guard
y:self="/rest/config/running/interface/TenGigabitEthernet/%2214/1/9%22/spanning-
tree/vlan/4000/guard">
  <root>true</root>
  </guard>
</vlan>
</spanning-tree>
```

## *History*

Release version	History
5.0.0	The API call was introduced.

## interface/{interface-type}/{interface-name}/storm-control

Configures, modifies, or retrieves BUM Storm Control.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/storm-control	BUM Storm Control Supported interface types are: <ul style="list-style-type: none"> <li>FortyGigabitEthernet</li> <li>GigabitEthernet</li> <li>HundredGigabitEthernet</li> <li>TenGigabitEthernet</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/storm-control/ingress	Sets the ingress direction

### Parameters

Name	Description
<i>protocol-type</i>	Configure traffic rate limiting parameters <ul style="list-style-type: none"> <li>broadcast</li> <li>multicast</li> <li>unknown-unicast</li> </ul>
<i>rate-format</i>	Configures rate format: <ul style="list-style-type: none"> <li>limit-bps - Configure the rate limit in bits per second (bps)</li> <li>limit-percent - Configure the rate limit in percentage of the line rate</li> </ul>
<i>rate-bps</i>	Rate limit value
<i>bum-action</i>	Configures bum action: <ul style="list-style-type: none"> <li>monitor - Monitor port for violations</li> <li>shutdown - Shut down port in case of violation</li> </ul>

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```

<storm-control xmlns="urn:brocade.com:mgmt:brocade-bum-storm-control"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/storm
-control">
  <ingress>
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/storm
-control/ingress/broadcast">
  <protocol-type>broadcast</protocol-type>
  <rate-format>limit-bps</rate-format>
  <rate-bps>10000</rate-bps>
  <bum-action>monitor</bum-action>
</ingress>
  <ingress>
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/11%22/storm
-control/ingress/unknown-unicast">
  <protocol-type>unknown-unicast</protocol-type>
  <rate-format>limit-bps</rate-format>
  <rate-bps>50000</rate-bps>
  <bum-action>monitor</bum-action>
</ingress>
</storm-control>

```

The following is an example of the POST operation to configure the BUM storm control configuration.

#### URI

```
http://host:80/rest/config/running/interface/tengigabitethernet/%221/0/5%22/storm-control
```

#### Request body

```

<ingress>
  <protocol-type>multicast</protocol-type>
  <rate-format>limit-percent</rate-format>
  <rate-percent>23</rate-percent>
  <bum-action>shutdown</bum-action>
</ingress>

```

#### Response body

None

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

#### URI

```
http://host:80/rest/config/running/interface/tengigabitethernet/%221/0/5%22/storm-control/ingress
```

#### Request body

None

#### Response body

None

## 4 Configuration APIs

### *History*

Release version	History
5.0.0	The API call was introduced.



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

Configures, modifies, or retrieves the switching characteristics of the Layer 2 interface.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/switchport	Set the switching characteristics of the Layer 2 interface Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> </ul>
<base_URI>/config/running/interface/{interface-type}/{interface-name}/switchport/access	Set the interface as access
<base_URI>/config/running/interface/{interface-type}/{interface-name}/switchport/mode	Set mode of the Layer2 interface
<base_URI>/config/running/interface/{interface-type}/{interface-name}/switchport/port-security	Enable port-security feature
<base_URI>/config/running/interface/{interface-type}/{interface-name}/switchport/private-vlan	Set private-vlan configuration
<base_URI>/config/running/interface/{interface-type}/{interface-name}/switchport/trunk	Set the Layer2 interface as trunk

### Parameters

Name	Description
<i>switchport</i>	Puts the interface in Layer 2 mode
<i>max</i>	Maximum number of allowed MAC addresses
<i>native-vlan</i>	Set the native VLAN characteristics of the Layer 2 trunk interface for classifying untagged traffic
<i>trunk-basic</i>	Set the Layer 2 interface as private-vlan trunk basic
<i>trunk-promiscuous</i>	Set the Layer 2 interface as private-vlan trunk promiscuous
<i>trunk-host</i>	Set the Layer 2 interface as private-vlan trunk host
<i>accessvlan</i>	Specifies the access VLAN for this interface
<i>rspan-access-vlan</i>	Specify RSPANVLAN ID to set as access VLAN
<i>pvlan_all</i>	Allow all VLANs to Xmit/Rx through the Layer 2 interface
<i>pvlan_none</i>	Allow no VLANs to Xmit/Rx through the Layer 2 interface
<i>pvlan_add</i>	Add a VLAN to Xmit/Rx through the Layer 2 interface
<i>pvlan_except</i>	Allow all VLANs except VID to Xmit/Rx through Layer 2 interface
<i>pvlan_remove</i>	Remove a VLAN that Xmit/Rx through the Layer 2 interface
<i>pvlanNativevlan</i>	VLAN interface number

Name	Description
<i>pvlan-native-vlan-ctag-id</i>	Associate a Ctag
<i>host-pri-pvlan</i>	VLAN interface number
<i>host-sec-pvlan</i>	VLAN interface number
<i>trunk-pri-pvlan</i>	Primary VLAN ID
<i>trunk-sec-pvlan</i>	Secondary VLAN ID
<i>promis-pri-pvlan</i>	Primary VLAN ID
<i>oper</i>	<ul style="list-style-type: none"> <li>• add - Add Secondary VLAN IDs</li> <li>• delete - Remove secondary VLAN IDs</li> </ul>
<i>promis-sec-pvlan-range</i>	VLAN ID/VLAN Range
<i>all</i>	Specify all Dot1q VLANs
<i>none</i>	Specify 'no dot1q vlans'
<i>add</i>	Specifies list of VLANs to be added
<i>except</i>	Specifies exception list of VLANs
<i>remove</i>	Specifies the list of VLANs to be removed
<i>add-rspan-trunk-vlan</i>	Specify RSPAN VLAN ID
<i>remove-rspan-trunk-vlan</i>	Specifies the list of RSPAN VLANs to be removed
<i>trunk-vlan-id</i>	VLAN ID
<i>trunk-ctag-id</i>	Ctag ID

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<switchport xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port">
  <switchport>true</switchport>
  <mode
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/mode">
```

```

    <private-vlan
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/mode/private-vlan">
    <trunk
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/mode/private-vlan/trunk">
        <trunk-basic>true</trunk-basic>
        <trunk-promiscuous>true</trunk-promiscuous>
        <trunk-host>true</trunk-host>
    </trunk>
    </private-vlan>
</mode>
    <port-security
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/port-security">
        <max>5</max>
    </port-security>
    <access
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/access">
        <accessvlan>2000</accessvlan>
        <rspan-access
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/access/rspan-access">
            <rspan-access-vlan>1000</rspan-access-vlan>
        </rspan-access>
    </access>
    <private-vlan
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/private-vlan">
        <trunk
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/private-vlan/trunk">
            <allowed
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/private-vlan/trunk/allowed">
                <vlan
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/private-vlan/trunk/allowed/vlan">
                    <pvlan_all>true</pvlan_all>
                    <pvlan_none>true</pvlan_none>
                    <pvlan_add>10</pvlan_add>
                    <pvlan_except>2000</pvlan_except>
                    <pvlan_remove>12</pvlan_remove>
                </vlan>
            </allowed>
            <native
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/private-vlan/trunk/native">
                <pvlanNativevlan>2000</pvlanNativevlan>
                <pvlan-native-vlan-ctag-id>3000</pvlan-native-vlan-ctag-id>
            </native>
        </trunk>
        <host-association
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/private-vlan/host-association">
            <host-pri-pvlan>1000</host-pri-pvlan>
            <host-sec-pvlan>2000</host-sec-pvlan>
        </host-association>

```

## 4 Configuration APIs

```
<association
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/private-vlan/association">
  <trunk
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/private-vlan/association/trunk">
    <trunk-pri-pvlan>100</trunk-pri-pvlan>
    <trunk-sec-pvlan>300</trunk-sec-pvlan>
  </trunk>
</asspcoation>
<mapping
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/private-vlan/mapping">
  <promis-pri-pvlan>400</promis-pri-pvlan>
  <oper>add</oper>
  <promis-sec-pvlan-range>1-10</promis-sec-pvlan-range>
</mapping>
</private-vlan>
<trunk
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/trunk">
  <allowed
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/trunk/allowed">
    <vlan
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/trunk/allowed/vlan">
      <all>true</all>
      <none>true</all>
      <add>10</add>
      <except>2000</except>
      <remove>12</remove>
    </vlan>
    <rspan-vlan
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/trunk/allowed/rspan-vlan">
      <add-rspan-trunk-vlan>100</add-rspan-trunk-vlan>
      <remove-rspan-trunk-vlan>200</remove-rspan-trunk-vlan>
    </rspan-vlan>
    <trunk-rspan-vlan-classification
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/trunk/allowed/trunk-rspan-vlan-classification">
      <rspan-vlan
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/trunk/allowed/trunk-rspan-vlan-classification/rspan-vlan">
        <add
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/trunk/allowed/trunk-rspan-vlan-classification/rspan-vlan/add">
          <trunk-vlan-id>10</trunk-vlan-id>
          <trunk-ctag-id>20</trunk-ctag-id>
        </add>
        <remove
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/switch
port/trunk/allowed/trunk-rspan-vlan-classification/rspan-vlan/remove">
          <trunk-vlan-id>50</trunk-vlan-id>
          <trunk-ctag-id>60</trunk-ctag-id>
        </remove>
      </rspan-vlan>
    </trunk-rspan-vlan-classification>
  </allowed>
```

```
</trunk>  
</switchport>
```

### *History*

Release version	History
5.0.0	The API call was introduced.

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

Configures, modifies, or retrieves the track interface.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/track	Track interface Supported interface types are: TenGigabitEthernet
<base_URI>/config/running/interface/{interface-type}/{interface-name}/track/interface	Interface to be tracked

### Parameters

Name	Description
enable	Enable tracking interface
track-interface-type	The following interface types can be tracked: <ul style="list-style-type: none"> <li>track-interface-type-port-channel - Track Port-Channel interface</li> <li>track-interface-type-track-ethernet - Track external physical interface</li> </ul>
track-interface-name	Interface name

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<track xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/track">
  <interface
y:self="/rest/config/running/interface/TenGigabitEthernet/%22195/1/7%22/track/in
terface/track-interface-type-port-channel%2Ctengigabiteternet">
    <track-interface-type>track-interface-type-port-channel</track-interface-typ
e>
    <track-interface-name>tengigabiteternet</track-interface-name>
  </interface>
</track>
```

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

**URI**

```
http://host:80/rest/config/running/interface/tengigabitethernet/%221/0/5%22/track
```

**Request body**

```
<interface>
  <track-interface-type>ethernet</track-interface-type>
  <track-interface-name>1/0/11</track-interface-name>
</interface>
```

**Response body**

None

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

**URI**

```
http://host:80/rest/config/running/interface/tengigabitethernet/%221/0/5%22/track/interface
```

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

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

Configures, modifies, or retrieves tunneling parameters.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/tunnel	Tunneling parameters Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> </ul>

### Parameters

Name	Description
tagged-ieee-bpdu	Enable tunneling of tagged IEEE BPDUs though VCS fabric

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<tunnel xmlns="urn:brocade.com:mgmt:brocade-xstp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%22195/2/2%22/tunnel">
  <tagged-ieee-bpdu>true</tagged-ieee-bpdu>
</tunnel>
```

### History

Release version	History
5.0.0	The API call was introduced.



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

Configures, modifies, or retrieves UDLD commands.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/udld	UDLD commands Supported interface types are: <ul style="list-style-type: none"> <li>FortyGigabitEthernet</li> <li>GigabitEthernet</li> <li>HundredGigabitEthernet</li> <li>TenGigabitEthernet</li> </ul>

### Parameters

Name	Description
enable	Enable UDLD protocol on the interface

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

### History

Release version	History
5.0.0	The API call was introduced.

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

Configures, modifies, or retrieves VLAN commands.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/vlan	VLAN commands. Supported interface types are: <ul style="list-style-type: none"> <li>• Port-Channel</li> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> </ul>

### Parameters

Name	Description
groupid	VLAN classifier group ID
vlan-name	VLAN name
vlan	VLAN

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<vlan xmlns="urn:brocade.com:mgmt:brocade-vlan"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/FortyGigabitEthernet/%221/2/3%22/vlan">
  <classifier>
    <activate>
      <group>
        <groupid>1</groupid>
        <vlan-name>vlan</vlan-name>
        <vlan>2</vlan>
      </group>
    </activate>
  </classifier>
</vlan>
```

## *History*

Release version	History
5.0.0	The API call was introduced.

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

Configures, modifies, or retrieves VRF.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/vrf	Assign VRF to this Ethernet interface Supported interface types are: <ul style="list-style-type: none"> <li>FortyGigabitEthernet</li> <li>GigabitEthernet</li> <li>HundredGigabitEthernet</li> <li>TenGigabitEthernet</li> </ul>

### Parameters

Name	Description
forwarding	Name of VRF

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

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

#### URI

```
http://host:80/rest/config/running/interface/tengigabitethernet/%221/0/5%22/vrf
```

#### Request body

```
<vrf>
  <forwarding>vrf1</forwarding>
</vrf>
```

**Response body**

None

The following is an example of the DELETE operation to disable VRF forwarding.

**URI**

```
http://host:80/rest/config/running/interface/tengigabitethernet/%221/0/5%22/vrf/forwarding
```

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

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

Configures, modifies, or retrieves VRRP configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/{interface-type}/{interface-name}/vrrp-group	Start VRRP configuration Supported interface types are: <ul style="list-style-type: none"> <li>FortyGigabitEthernet</li> <li>GigabitEthernet</li> <li>HundredGigabitEthernet</li> <li>TenGigabitEthernet</li> </ul>

### Parameters

Name	Description
<i>vrid</i>	Virtual router identifier
<i>version</i>	VRRP version

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

### History

Release version	History
5.0.0	The API call was introduced.

## interface/ve/{vlan-id}/ip/fabric-virtual-gateway

Configures, modifies, or retrieves the Internet Protocol (IP) Fabric-Virtual-Gateway configurations in a Virtual Ethernet (VE) interface.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/ve/{vlan-id}/ip/fabric-virtual-gateway	IP Fabric-Virtual-Gateway configurations
<base_URI>/config/running/interface/ve/{vlan-id}/ip/fabric-virtual-gateway/gratuitous-arp	Gratuitous ARP timer configurations

### Parameters

Name	Description
<i>ip-gw-id</i>	Gateway ID number
<i>gateway-address</i>	IP address
<i>timer</i>	Gratuitous ARP timer value
<i>hold-time</i>	Hold time
<i>load-balancing-disable</i>	Disables load balancing
<i>enable</i>	Enables Fabric-Virtual-Gateway
<i>description</i>	Fabric-Virtual-Gateway-specific description

### Usage guidelines

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

### Examples

The following is an example of the GET operation to retrieve the Fabric-Virtual-Gateway configuration details.

#### URI

```
http://host:80/rest/config/running/interface/ve/1/ip
```

#### Request body

None

#### Response body

```
<ip xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Ve/1/ip">
  <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway"
y:self="/rest/config/running/interface/Ve/1/ip/fabric-virtual-gateway/23">
    <ip-gw-id>1</ip-gw-id>
    <gateway-address>1.1.1.1/24</gateway-address>
```

## 4 Configuration APIs

```
<gratuitous-arp
y:self="/rest/config/running/interface/Ve/1/ip/fabric-virtual-gateway/23/gratuitous-arp">
  <timer>40</timer>
</gratuitous-arp>
<hold-time>25</hold-time>
<load-balancing-disable>true</load-balancing-disable>
<enable>true</enable>
<description>anycastip</description>
</fabric-virtual-gateway>
</ip>
```

The following is an example of the DELETE operation to remove a gateway address from IP Fabric-Virtual-Gateway configuration.

### URI

`http://host:80/rest/config/running/interface/ve/1/ip/fabric-virtual-gateway/22/gateway-address`

### Request body

None

### Response body

None

### *History*

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



## interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway

Configures, modifies, or retrieves the Internet Protocol version 6 (IPv6) Fabric-Virtual-Gateway configurations in a Virtual Ethernet (VE) interface.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway	IPv6 Fabric-Virtual-Gateway configurations
<base_URI>/config/running/interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway/gratuitous-arp	Gratuitous ARP timer configurations

### Parameters

Name	Description
ipv6-gw-id	Gateway ID number
ipv6-gw-addr	IPv6 address
timer	ND timer value
hold-time	Hold time
load-balancing-disable	Disables load balancing
enable	Enables Fabric-Virtual-Gateway
description	Fabric-Virtual-Gateway-specific description

### Usage guidelines

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

### Examples

The following is an example of the GET operation to retrieve the IPv6 Fabric-Virtual-Gateway configuration details.

#### URI

```
http://host:80/rest/config/running/interface/ve/1/ipv6
```

#### Request body

None

#### Response body

```
<ipv6 xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Ve/1/ipv6">
  <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway"
y:self="/rest/config/running/interface/Ve/1/ipv6/fabric-virtual-gateway/22">
    <ipv6-gw-id>1</ipv6-gw-id>
```

## 4 Configuration APIs

```
<gateway-address
y:self="/rest/config/running/interface/Ve/1/ipv6/fabric-virtual-gateway/22/gatew
ay-address/%221::1/24%22">
  <ipv6-gw-addr>1::1/24</ipv6-gw-addr>
</gateway-address>
<gratuitous-arp
y:self="/rest/config/running/interface/Ve/1/ipv6/fabric-virtual-gateway/22/nd">
  <timer>80</timer>
</gratuitous-arp>
<hold-time>58</hold-time>
<load-balancing-disable>true</load-balancing-disable>
<enable>true</enable>
<description>anycastipv6</description>
</fabric-virtual-gateway>
</ipv6>
```

The following is an example of the DELETE operation to remove a gateway address from IPv6 Fabric-Virtual-Gateway configuration.

### URI

`http://host:80/rest/config/running/interface/ve/1/ipv6/fabric-virtual-gateway/22/gateway-address`

### Request body

None

### Response body

None

### *History*

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

## interface/vlan/{vlan-number}/ip/arp

Configures, modifies, or retrieves ARP inspection.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/vlan/{vlan-number}/ip/arp	Configures ARP inspection
<base_URI>/config/running/interface/vlan/{vlan-number}/ip/arp/inspection	Sets the ARP inspection flag
<base_URI>/config/running/interface/vlan/{vlan-number}/ip/arp/inspection/filter	Configures ARP inspection filter
<base_URI>/config/running/interface/vlan/{vlan-number}/ip/arp/inspection/logging	Configures ARP inspection logging

### Parameters

Name	Description
<i>trust</i>	Sets the ARP inspection flag
<i>acl-name</i>	Access List name
<i>acl-match</i>	Enables DAI logging. The possible completions are: <ul style="list-style-type: none"> <li>matchlog - ARP packets permitted by the ACL are logged</li> <li>none - Do not log packets that match ACLs</li> </ul>

### Usage guidelines

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

### Examples

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

#### URI

```
http://host:80/rest/config/running/interface/vlan/100/ip/arp
```

#### Request body

None

#### Response body

```
<arp xmlns="urn:brocade.com:mgmt:brocade-dai"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Vlan/100/ip/arp">
  <inspection
y:self="/rest/config/running/interface/Vlan/100/ip/arp/inspection">
    <trust>true</trust>
    <filter
y:self="/rest/config/running/interface/Vlan/100/ip/arp/inspection/filter">
      <acl-name>acl1</acl-name>
```

## 4 Configuration APIs

```
</filter>
<logging
y:self="/rest/config/running/interface/Vlan/100/ip/arp/inspection/logging">
  <acl-match>matchlog</acl-match>
</logging>
</inspection>
</arp>
```

The following is an example of the PUT operation to add an access list name.

### URI

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

### Request body

```
<filter>
  <acl-name>acl1</acl-name>
</filter>
```

### Response body

None

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

### URI

`http://host:80/rest/config/running/interface/vlan/100/ip/arp/inspection/filter/acl-name`

### Request body

None

### Response body

None

## *History*

Release version	History
6.0.1	The API call was introduced.

## interface/vlan/{vlan-number}/private-vlan

Configures, modifies, or retrieves private VLAN.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/vlan/{vlan-number}/private-vlan	Configure VLAN as private VLAN
<base_URI>/config/running/interface/vlan/{vlan-number}/private-vlan/association	Associate secondary VLAN

### Parameters

Name	Description
<i>pvlan-type-leaf</i>	Sets the VLAN interface as the following: <ul style="list-style-type: none"> <li>community - Set the VLAN interface as community VLAN</li> <li>isolated - Set the VLAN interface as Isolated VLAN</li> <li>primary - Set the VLAN interface as Primary VLAN</li> </ul>
<i>add</i>	VLAN to add
<i>remove</i>	VLAN to remove

### Usage guidelines

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

### Examples

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

#### URI

```
http://host:80/rest/config/running/interface/vlan/1/private-vlan
```

#### Request body

None

#### Response body

```
<private-vlan xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Vlan/1/private-vlan">
  <pvlan-type-leaf>isolated</pvlan-type-leaf>
  <association
y:self="/rest/config/running/interface/Vlan/1/private-vlan/association">
    <add>1000</add>
    <remove>4098</remove>
  </association>
</private-vlan>
```

## 4 Configuration APIs

### *History*

Release version	History
5.0.0	The API call was introduced.

## interface/vlan/{vlan-number}/transport-service

Configures, modifies, or retrieves the transport LAN service ID (tlsid) for transparent VLAN

### Resource URIs

URI	Description
<base_URI>/config/running/interface/vlan/{vlan-number}/transport-service	Set tlsid for transparent VLAN

### Parameters

Name	Description
<i>name</i>	tlsid number
<i>transport-service</i>	Associates a service VF with a trunk port interface as a transport VF

### Usage guidelines

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

### Examples

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

#### URI

```
http://host:80/rest/config/running/interface/vlan/8000/transport-service
```

#### Request body

None

#### Response body

```
<Vlan xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Vlan/8000">
  <name>8000</name>
  <transport-service>10</transport-service>
</Vlan>
```

### History

Release version	History
5.0.0	The API call was introduced.

## interface/port-channel/{port-channel-number}/vlag

Configures, modifies, or retrieves Virtual LAG.

### Resource URIs

URI	Description
<base_URI>/config/running/interface/port-channel/{port-channel-number}/vlag	Virtual LAG

### Parameters

Name	Description
ignore-split	VLAG ignore-split-recovery

### Usage guidelines

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

### Examples

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

#### URI

http://host:80/rest/config/running/interface/Port-channel/6144/vlag

#### Request body

None

#### Response body

```
<vlag xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/interface/Port-channel/6144/vlag">
  <ignore-split>true</ignore-split>
</vlag>
```

### History

Release version	History
5.0.0	The API call was introduced.



## ip

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

### Resource URIs

URI	Description
<base_URI>/config/running/ip	The Internet Protocol configuration
<base_URI>/config/running/ip/access-list	Access list configuration. Refer to <a href="#">ip/access-list</a> for information.
<base_URI>/config/running/ip/dns	Domain Name System (DNS) configuration. Refer to <a href="#">ip/dns</a> for information.
<base_URI>/config/running/ip/igmp	Internet Group Management Protocol (IGMP) configuration. Refer to <a href="#">ip/igmp</a> for information.

### Parameters

Name	Description
<i>access-list</i>	Configures IP access list
<i>igmp</i>	Configures IGMP
<i>dns</i>	Configures a DNS

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<ip xmlns="urn:brocade.com:mgmt:brocade-ip-access-list"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/ip">
  <access-list y:self="/rest/config/running/ip/access-list/">
    <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping"
y:self="/rest/config/running/ip/igmp/">
      <dns xmlns="urn:brocade.com:mgmt:brocade-ip-administration"
y:self="/rest/config/running/ip/dns/">
    </ip>
```

## 4 Configuration APIs

### *History*

Release version	History
5.0.0	The API call was introduced.

## ip/access-list

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

### Resource URIs

URI	Description
<base_URI>/config/running/ip	The Internet Protocol configuration
<base_URI>/config/running/ip/access-list/standard	Standard IP ACL configuration
<base_URI>/config/running/ip/access-list/standard/{ACL-name}/seq	Sequence number configuration
<base_URI>/config/running/ip/access-list/extended	Extended IP ACL configuration
<base_URI>/config/running/ip/access-list/extended/{ACL-name}/seq	Sequence number configuration

### Parameters

Name	Description
<i>name</i>	Specifies the access list name
<i>seq</i>	Specifies the sequence number
<i>seq-id</i>	Specifies the sequence number for the rule
<i>action</i>	Specifies the action to be performed. The following actions can be performed. <ul style="list-style-type: none"> <li>deny</li> <li>hard-drop</li> <li>permit</li> </ul>
<i>src-host-any-sip</i>	Specifies any source host IP address
<i>src-host-ip</i>	Specifies the source host IP address
<i>src-mask</i>	Source IP address mask
<i>count</i>	Enables the counting of the packets matching the rule
<i>log</i>	Packets matching the filter are sent to the CPU and a corresponding log entry is generated by enabling the logging mechanism. This parameter is only available with permit and deny.
<i>protocol-type</i>	The type of protocol used
<i>dst-host-any-dip</i>	Specifies any destination host IP address
<i>dst-host-ip</i>	Specifies the destination host IP address
<i>vlan</i>	VLAN interface number
<i>dscp</i>	Specifies the DSCP field value in IP header when a packet matches a flow

### Usage guidelines

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

### Examples

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

### URI

http://host:80/rest/config/running/ip/access-list

### Request body

None

### Response body

```
<access-list xmlns="urn:brocade.com:mgmt:brocade-ip-access-list"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/ip/access-list">
  <standard y:self="/rest/config/running/ip/access-list/standard/acl15">
    <name>acl15</name>
    <seq y:self="/rest/config/running/ip/access-list/standard/acl15/seq/10">
      <seq-id>10</seq-id>
      <action>deny</action>
      <src-host-any-sip>host</src-host-any-sip>
      <src-host-ip>10.12.14.17</src-host-ip>
      <count>true</count>
      <log>true</log>
    </seq>
    <seq y:self="/rest/config/running/ip/access-list/standard/acl15/seq/20">
      <seq-id>20</seq-id>
      <action>hard-drop</action>
      <src-host-any-sip>10.14.16.98</src-host-any-sip>
      <src-mask>10.54.58.74</src-mask>
      <count>true</count>
      <log>true</log>
    </seq>
    <seq y:self="/rest/config/running/ip/access-list/standard/acl15/seq/30">
      <seq-id>30</seq-id>
      <action>permit</action>
      <src-host-any-sip>host</src-host-any-sip>
      <src-host-ip>10.24.15.17</src-host-ip>
      <count>true</count>
      <log>true</log>
    </seq>
    <seq y:self="/rest/config/running/ip/access-list/standard/acl15/seq/100">
      <seq-id>100</seq-id>
      <action>hard-drop</action>
      <src-host-any-sip>any</src-host-any-sip>
      <count>true</count>
      <log>true</log>
    </seq>
  </standard>
  <standard y:self="/rest/config/running/ip/access-list/standard/exit">
    <name>exit</name>
    <seq y:self="/rest/config/running/ip/access-list/standard/exit/seq/10">
      <seq-id>10</seq-id>
      <action>hard-drop</action>
      <src-host-any-sip>host</src-host-any-sip>
      <src-host-ip>10.20.34.100</src-host-ip>
      <count>true</count>
      <log>true</log>
    </seq>
    <seq y:self="/rest/config/running/ip/access-list/standard/exit/seq/20">
      <seq-id>20</seq-id>
```

```

    <action>permit</action>
    <src-host-any-sip>host</src-host-any-sip>
    <src-host-ip>10.14.88.100</src-host-ip>
    <count>true</count>
    <log>true</log>
  </seq>
</standard>
<extended y:self="/rest/config/running/ip/access-list/extended/acl1">
  <name>acl1</name>
  <seq y:self="/rest/config/running/ip/access-list/extended/acl1/seq/10">
    <seq-id>10</seq-id>
    <action>hard-drop</action>
    <protocol-type>ip</protocol-type>
    <src-host-any-sip>host</src-host-any-sip>
    <src-host-ip>10.60.20.54</src-host-ip>
    <dst-host-any-dip>any</dst-host-any-dip>
    <vlan>300</vlan>
    <count>true</count>
    <log>true</log>
  </seq>
  <seq y:self="/rest/config/running/ip/access-list/extended/acl1/seq/20">
    <seq-id>20</seq-id>
    <action>permit</action>
    <protocol-type>udp</protocol-type>
    <src-host-any-sip>host</src-host-any-sip>
    <src-host-ip>10.11.12.40</src-host-ip>
    <dst-host-any-dip>any</dst-host-any-dip>
    <vlan>300</vlan>
    <count>true</count>
    <log>true</log>
  </seq>
  <seq y:self="/rest/config/running/ip/access-list/extended/acl1/seq/30">
    <seq-id>30</seq-id>
    <action>permit</action>
    <protocol-type>ip</protocol-type>
    <src-host-any-sip>any</src-host-any-sip>
    <dst-host-any-dip>any</dst-host-any-dip>
    <vlan>100</vlan>
    <count>true</count>
    <log>true</log>
  </seq>
</extended>
<extended y:self="/rest/config/running/ip/access-list/extended/acl13">
  <name>acl13</name>
  <seq y:self="/rest/config/running/ip/access-list/extended/acl13/seq/5">
    <seq-id>5</seq-id>
    <action>deny</action>
    <protocol-type>udp</protocol-type>
    <src-host-any-sip>host</src-host-any-sip>
    <src-host-ip>10.25.24.74</src-host-ip>
    <dst-host-any-dip>any</dst-host-any-dip>
    <dscp>af22</dscp>
    <vlan>500</vlan>
  </seq>
</extended>

```

## 4 Configuration APIs

```
<count>>true</count>
<log>>true</log>
</seq>
<seq y:self="/rest/config/running/ip/access-list/extended/acl13/seq/10">
  <seq-id>10</seq-id>
  <action>deny</action>
  <protocol-type>icmp</protocol-type>
  <src-host-any-sip>any</src-host-any-sip>
  <dst-host-any-dip>host</dst-host-any-dip>
  <dst-host-ip>10.20.24.25</dst-host-ip>
  <vlan>1100</vlan>
  <count>>true</count>
  <log>>true</log>
</seq>
<seq y:self="/rest/config/running/ip/access-list/extended/acl13/seq/20">
  <seq-id>20</seq-id>
  <action>hard-drop</action>
  <protocol-type>ip</protocol-type>
  <src-host-any-sip>host</src-host-any-sip>
  <src-host-ip>10.20.26.58</src-host-ip>
  <dst-host-any-dip>any</dst-host-any-dip>
  <dscp>cs7</dscp>
  <vlan>300</vlan>
  <count>>true</count>
  <log>>true</log>
</seq>
<seq y:self="/rest/config/running/ip/access-list/extended/acl13/seq/30">
  <seq-id>30</seq-id>
  <action>permit</action>
  <protocol-type>tcp</protocol-type>
  <src-host-any-sip>10.25.36.96</src-host-any-sip>
  <src-mask>10.24.21.17</src-mask>
  <dst-host-any-dip>host</dst-host-any-dip>
  <dst-host-ip>10.25.52.56</dst-host-ip>
  <vlan>300</vlan>
  <count>>true</count>
  <log>>true</log>
</seq>
</extended>
</access-list>
```

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

### URI

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

### Request body

```
<standard>
  <name>test</name>
</standard>
```

### Response body

None

The following is an example of the DELETE operation to remove an extended access list.

### URI

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

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## ip/dns

Configures, modifies, or retrieves the Domain Name System (DNS) server configurations in the system.

### Resource URIs

URI	Description
<base_URI>/config/running/ip	The Internet Protocol configuration
<base_URI>/config/running/ip/dns	Domain name system configuration

### Parameters

Name	Description
domain-name	Configures the domain name
name-server	The IPv4 or IPv6 address for name server

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<dns xmlns="urn:brocade.com:mgmt:brocade-ip-administration"
y:self="/rest/config/running/ip/dns">
  <domain-name>domain1</domain-name>
  <name-server y:self="/rest/config/running/ip/dns/name-server/10.20.34.100">
    <name-server-ip>10.20.34.100</name-server-ip>
  </name-server>
</dns>
```

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

#### URI

http://host:80/rest/config/running/ip/dns/name-server

#### Request body

None



**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## ip/igmp

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

### Resource URIs

URI	Description
<base_URI>/config/running/ip	The Internet Protocol configuration
<base_URI>/config/running/ip/igmp	IGMP configuration
<base_URI>/config/running/ip/igmp/snooping	Layer 2 snooping configuration

### Parameters

Name	Description
<i>snooping</i>	Any source IP address
<i>enable</i>	Enables the IGMP snooping

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/ip/igmp">
  <snooping y:self="/rest/config/running/ip/igmp/snooping">
    <enable>true</enable>
  </snooping>
</igmp>
```

The following is an example of the DELETE operation to disable IGMP snooping or to disable restricting unknown multicast traffic.

#### URI

```
http://host:80/rest/config/running/ip/igmp/snooping
```

#### Request body

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## ipv6

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

### Resource URIs

URI	Description
<base_URI>/config/running/ipv6	The Internet Protocol
<base_URI>/config/running/ipv6/access-list	IPv6 access list configuration. Refer to <a href="#">ipv6/access-list</a> for information.
<base_URI>/config/running/ipv6/mld/snooping	Layer 2 snooping configuration. Refer to <a href="#">ipv6/mld</a> for information.

### Parameters

Name	Description
<i>mld</i>	Multicast Listener Discovery (MLD) Snooping
<i>access-list</i>	IPv6 access list configurations

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<ipv6 xmlns="urn:brocade.com:mgmt:brocade-mld-snooping"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/ipv6">
  <mld y:self="/rest/config/running/ipv6/mld"/>
    <access-list xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list"
y:self="/rest/config/running/ipv6/access-list"/>
</ipv6>
```

### History

Release version	History
5.0.0	The API call was introduced.

## ipv6/access-list

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

### Resource URIs

URI	Description
<base_URI>/config/running/ipv6	The Internet Protocol configuration
<base_URI>/config/running/ipv6/access-list/standard	Standard IP ACL configuration
<base_URI>/config/running/ipv6/access-list/standard/{ACL-name}/seq	Sequence number configuration
<base_URI>/config/running/ipv6/access-list/extended	Extended IP ACL configuration
<base_URI>/config/running/ipv6/access-list/extended/{ACL-name}/seq	Sequence number configuration

### Parameters

Name	Description
<i>name</i>	Specifies the access list name
<i>seq</i>	Specifies the sequence number
<i>seq-id</i>	Specifies the sequence number for the rule
<i>action</i>	Specifies the action, the following actions can be performed: <ul style="list-style-type: none"> <li>deny</li> <li>hard-drop</li> <li>permit</li> </ul>
<i>src-host-any-sip</i>	Specifies any source host IP address
<i>src-host-ip</i>	Specifies the source host IP address
<i>count</i>	Enables the counting of the packets matching the rule
<i>log</i>	Packets matching the filter are sent to the CPU and a corresponding log entry is generated by enabling the logging mechanism. This parameter is only available with permit and deny.
<i>protocol-type</i>	The type of protocol used
<i>dst-host-any-dip</i>	Specifies any destination host IP address
<i>dst-host-ip</i>	Specifies the destination host IP address
<i>vlan</i>	VLAN interface number

### Usage guidelines

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

### Examples

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

### URI

http://host:80/rest/config/running/ipv6/access-list

### Request body

None

### Response body

```
<access-list xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/ipv6/access-list">
  <standard y:self="/rest/config/running/ipv6/access-list/standard/ipv6acl1">
    <name>ipv6acl1</name>
    <seq
y:self="/rest/config/running/ipv6/access-list/standard/ipv6acl1/seq/10">
      <seq-id>10</seq-id>
      <action>hard-drop</action>
      <src-host-any-sip>host</src-host-any-sip>
      <src-host-ip>10:20:45:30:15:75:100:110</src-host-ip>
      <count>true</count>
      <log>true</log>
    </seq>
    <seq
y:self="/rest/config/running/ipv6/access-list/standard/ipv6acl1/seq/20">
      <seq-id>20</seq-id>
      <action>permit</action>
      <src-host-any-sip>any</src-host-any-sip>
      <count>true</count>
      <log>true</log>
    </seq>
    <seq
y:self="/rest/config/running/ipv6/access-list/standard/ipv6acl1/seq/50000">
      <seq-id>50000</seq-id>
      <action>hard-drop</action>
      <src-host-any-sip>any</src-host-any-sip>
      <count>true</count>
      <log>true</log>
    </seq>
  </standard>
  <extended y:self="/rest/config/running/ipv6/access-list/extended/acl16">
    <name>acl16</name>
    <seq y:self="/rest/config/running/ipv6/access-list/extended/acl16/seq/10">
      <seq-id>10</seq-id>
      <action>deny</action>
      <protocol-type>ipv6</protocol-type>
      <src-host-any-sip>host</src-host-any-sip>
      <src-host-ip>10:20:14:45:56:58:45:78</src-host-ip>
      <dst-host-any-dip>any</dst-host-any-dip>
      <vlan>100</vlan>
      <count>true</count>
      <log>true</log>
    </seq>
    <seq y:self="/rest/config/running/ipv6/access-list/extended/acl16/seq/20">
      <seq-id>20</seq-id>
      <action>hard-drop</action>
      <protocol-type>ipv6</protocol-type>
      <src-host-any-sip>any</src-host-any-sip>
      <dst-host-any-dip>host</dst-host-any-dip>
      <dst-host-ip>10:45:78:54:45:78:52:87</dst-host-ip>
```

```

    <vlan>1100</vlan>
    <count>>true</count>
    <log>>true</log>
  </seq>
  <seq y:self="/rest/config/running/ipv6/access-list/extended/acl16/seq/30">
    <seq-id>30</seq-id>
    <action>permit</action>
    <protocol-type>tcp</protocol-type>
    <src-host-any-sip>any</src-host-any-sip>
    <dst-host-any-dip>host</dst-host-any-dip>
    <dst-host-ip>10:78:85:74:78:45:78:45</dst-host-ip>
    <vlan>1200</vlan>
    <count>>true</count>
    <log>>true</log>
  </seq>
  <seq y:self="/rest/config/running/ipv6/access-list/extended/acl16/seq/4500">
    <seq-id>4500</seq-id>
    <action>hard-drop</action>
    <protocol-type>ipv6</protocol-type>
    <src-host-any-sip>any</src-host-any-sip>
    <dst-host-any-dip>any</dst-host-any-dip>
    <vlan>4500</vlan>
    <count>>true</count>
    <log>>true</log>
  </seq>
</extended>
<extended y:self="/rest/config/running/ipv6/access-list/extended/ip_acl_1">
  <name>ip_acl_1</name>
  <seq
y:self="/rest/config/running/ipv6/access-list/extended/ip_acl_1/seq/10">
    <seq-id>10</seq-id>
    <action>deny</action>
    <protocol-type>ipv6</protocol-type>
    <src-host-any-sip>2001:2002:1234:1::/64</src-host-any-sip>
    <dst-host-any-dip>2001:1001:1234:1::/64</dst-host-any-dip>
    <count>>true</count>
  </seq>
  <seq
y:self="/rest/config/running/ipv6/access-list/extended/ip_acl_1/seq/20">
    <seq-id>20</seq-id>
    <action>deny</action>
    <protocol-type>ipv6</protocol-type>
    <src-host-any-sip>2002:2003:1234:1::/64</src-host-any-sip>
    <dst-host-any-dip>2001:3001:1234:1::/64</dst-host-any-dip>
    <count>>true</count>
  </seq>
</extended>
</access-list>

```

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

#### URI

`http://host:80/rest/config/running/ipv6/access-list`

#### Request body

```

<extended>
  <name>test</name>
</extended>

```

## 4 Configuration APIs

### Response body

None

The following is an example of the DELETE operation to remove a standard access list.

### URI

```
http://host:80/rest/config/running/ipv6/access-list/standard/ipv6acl1
```

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.



## ipv6/mld

Configures, modifies, or retrieves the Multicast Listener Discovery (MLD) snooping configuration..

### Resource URIs

URI	Description
<base_URI>/config/running/ipv6	The Internet Protocol configuration
<base_URI>/config/running/ipv6/mld/snooping	Layer 2 snooping configuration

### Parameters

Name	Description
<i>enable</i>	Enables MLD Snooping
<i>restrict-unknown-multicast</i>	Restricts Unknown Multicast traffic

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<mld xmlns="urn:brocade.com:mgmt:brocade-mld-snooping"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/ipv6/mld">
  <snooping y:self="/rest/config/running/ipv6/mld/snooping">
    <enable>true</enable>
    <restrict-unknown-multicast>true</restrict-unknown-multicast>
  </snooping>
</mld>
```

### History

Release version	History
5.0.0	The API call was introduced.

## lACP

Configures, modifies, or retrieves LACP commands.

### Resource URIs

URI	Description
<base_URI>/config/running/lACP	LACP commands

### Parameters

Name	Description
system-priority	Configures LACP system priority

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

```
<lACP xmlns="urn:brocade.com:mgmt:brocade-lACP"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/lACP">
  <system-priority>32799</system-priority>
</lACP>
```

The following is an example of the PUT operation to set the system priority.

#### URI

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

#### Request body

```
<lACP>
  <system-priority>32200</system-priority>
</lACP>
```

#### Response body

None

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

**URI**

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

**Request body**

None

**Response body**

None

***History***

---

Release version	History
5.0.0	The API call was introduced.

---

## ldap-server

Configures, modifies, or retrieves LDAP server settings.

### Resource URIs

URI	Description
<base_URI>/config/running/ldap-server	LDAP server configuration
<base_URI>/config/running/ldap-server/host	LDAP Server for AAA. Refer to <a href="#">ldap-server/host</a> for information
<base_URI>/config/running/ldap-server/maprole	Maps a role to a group. Refer to <a href="#">ldap-server/maprole</a> for information

### Parameters

Name	Description
host	Configures a LDAP server for AAA
maprole	Maps a role to the group

### Usage guidelines

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

### Examples

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

#### URI

`http://host:80/rest/config/running/ldap-server`

#### Request body

None

#### Response body

```
<ldap-server xmlns="urn:brocade.com:mgmt:brocade-aaa" xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/ldap-server">
  <host y:self="/rest/config/running/ldap-server/host/inetaddress"/>
  <maprole y:self="/rest/config/running/ldap-server/maprole"/>
</ldap-server>
```

### History

Release version	History
5.0.0	The API call was introduced.

## ldap-server/host

Configures, modifies, or retrieves LDAP server for AAA settings.

### Resource URIs

URI	Description
<base_URI>/config/running/ldap-server/host	LDAP Server for AAA

### Parameters

Name	Description
hostname	LDAP server host name
port	TCP authentication port
retries	Number of retries for this server connection
timeout	Wait time for this server to respond
basedn	Base domain name

### Usage guidelines

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

### Examples

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

#### URI

```
http://host:80/rest/config/running/ldap-server/host
```

#### Request body

None

#### Response body

```
<host y:self="/rest/config/running/ldap-server/host/inetaddress">
  <hostname>inetaddress</hostname>
  <port>400</port>
  <retries>6</retries>
  <timeout>10</timeout>
  <basedn>test</basedn>
</host>
<host y:self="/rest/config/running/ldap-server/host/test">
  <hostname>test</hostname>
</host>
```

The following is an example of the POST operation to add an LDAP server to the client server list.

#### URI

```
http://host:80/rest/config/running/ldap-server
```

## 4 Configuration APIs

### Request body

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

### Response body

None

The following is an example of the DELETE operation to remove an LDAP server.

### URI

`http://host:80/rest/config/running/ldap-server/host/test_API`

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## ldap-server/maprole

Configures, modifies, or retrieves LDAP server settings for maps.

### Resource URIs

URI	Description
<base_URI>/config/running/ldap-server/maprole	Maps a role to a group

### Parameters

Name	Description
<i>ad-group</i>	AD group belongs to user on the AD Server
<i>role</i>	Specifies the role name

### Usage guidelines

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

### Examples

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

#### URI

```
http://host:80/rest/config/running/ldap-server/maprole
```

#### Request body

None

#### Response body

```
<maprole y:self="/rest/config/running/ldap-server/maprole">
  <group y:self="/rest/config/running/ldap-server/maprole/group/administrator">
    <ad-group>administrator</ad-group>
    <role>admin</role>
  </group>
</maprole>
```

The following is an example of the POST operation to map a role to a group.

#### URI

```
http://host:80/rest/config/running/ldap-server/maprole
```

#### Request body

```
<group>
  <ad-group>administrator</ad-group>
  <role>admin</role>
</group>
```

## 4 Configuration APIs

### Response body

None

The following is an example of the DELETE operation to a maprole configuration.

### URI

`http://host:80/rest/config/running/ldap-server/maprole/group`

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.



## line

Configures, modifies, or retrieves CLI session configuration.

### *Resource URIs*

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

### *Parameters*

Name	Description
sessionid	Terminal type
exec-timeout	CLI session maximum idle time before automatic logout

### *Usage guidelines*

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

### *Examples*

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

#### URI

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

#### Request body

None

#### Response body

```
<line xmlns="urn:brocade.com:mgmt:brocade-terminal"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/line/vty">
  <sessionid>vty</sessionid>
  <exec-timeout>10</exec-timeout>
</line>
```

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

#### URI

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

#### Request body

None

#### Response body

None

## 4 Configuration APIs

### *History*

Release version	History
5.0.0	The API call was introduced.

## logging

Configures, modifies, or retrieves logging configuration (RASLOG or syslog).

### Resource URIs

URI	Description
<base_URI>/config/running/logging	Logging configuration: RASLOG or syslog
<base_URI>/config/running/logging/auditlog	Audit log. Refer to <a href="#">logging/auditlog</a> for information
<base_URI>/config/running/logging/raslog	RASLOG message/module. Refer to <a href="#">logging/raslog</a> for information
<base_URI>/config/running/logging/syslog-client	Syslog Client. Refer to <a href="#">logging/syslog-client</a> for information
<base_URI>/config/running/logging/syslog-facility	Syslog facility. Refer to <a href="#">logging/syslog-facility</a> for information
<base_URI>/config/running/logging/syslog-server	Syslog server address. Refer to <a href="#">logging/syslog-server</a> for information

### Parameters

Name	Description
<i>auditlog</i>	Configures audit log
<i>raslog</i>	Configures raslog message or module
<i>syslog-client</i>	Configures syslog client
<i>syslog-facility</i>	Configures syslog facility
<i>syslog-server</i>	Configures upto four syslog server address

### Usage guidelines

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

### Examples

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

#### URI

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

#### Request body

None

#### Response body

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

## 4 Configuration APIs

```
<syslog-server
y:self="/rest/config/running/logging/syslog-server/10.20.58.160"/>
  <auditlog y:self="/rest/config/running/logging/auditlog"/>
    <syslog-facility y:self="/rest/config/running/logging/syslog-facility"/>
    <syslog-client y:self="/rest/config/running/logging/syslog-client"/>
  </logging>
```

### *History*

Release version	History
5.0.0	The API call was introduced.

## logging/auditlog

Configures, modifies, or retrieves audit log configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/logging/auditlog	Audit log

### Parameters

Name	Description
class	Configure auditlog classes

### Usage guidelines

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

### Examples

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

#### URI

```
http://host:80/rest/config/running/logging/auditlog
```

#### Request body

None

#### Response body

```
<auditlog y:self="/rest/config/running/logging/auditlog">
  <class y:self="/rest/config/running/logging/auditlog/class/SECURITY">
    <class>SECURITY</class>
  </class>
  <class y:self="/rest/config/running/logging/auditlog/class/CONFIGURATION">
    <class>CONFIGURATION</class>
  </class>
  <class y:self="/rest/config/running/logging/auditlog/class/FIRMWARE">
    <class>FIRMWARE</class>
  </class>
</auditlog>
```

The following is an example of the POST operation to add auditlog configuration.

#### URI

```
http://host:80/rest/config/running/logging/auditlog
```

#### Request body

```
<class>
  <class>SECURITY</class>
</class>
```

## 4 Configuration APIs

### Response body

None

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

### URI

`http://host:80/rest/config/running/logging/auditlog/class/SECURITY`

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## logging/raslog

Configures, modifies, or retrieves raslog configuration.

### *Resource URIs*

URI	Description
<base_URI>/config/running/logging/raslog	RASLOG message/module

### *Parameters*

Name	Description
console	Configure RASLOG console severity

### *Usage guidelines*

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

### *Examples*

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

#### URI

```
http://host:80/rest/config/running/logging/raslog
```

#### Request body

None

#### Response body

```
<raslog y:self="/rest/config/running/logging/raslog">
  <console>WARNING</console>
</raslog>
```

### *History*

Release version	History
5.0.0	The API call was introduced.

## logging/syslog-client

Configures, modifies, or retrieves syslog client configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/logging/syslog-client	Syslog Client

### Parameters

Name	Description
localip	Configure local IP type

### Usage guidelines

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

### Examples

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

#### URI

```
http://host:80/rest/config/running/logging/syslog-client
```

#### Request body

None

#### Response body

```
<syslog-client y:self="/rest/config/running/logging/syslog-client">
  <localip>CHASSIS_IP</localip>
</syslog-client>
```

The following is an example of the PUT operation to add syslog client configuration.

#### URI

```
http://host:80/rest/config/running/logging/syslog-client
```

#### Request body

```
<syslog-client>
  <localip>MM_IP</localip>
</syslog-client>
```

#### Response body

None

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

#### URI

```
http://host:80/rest/config/running/logging/syslog-client/localip
```



**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## logging/syslog-facility

Configures, modifies, or retrieves syslog facility configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/logging/syslog-facility	Syslog facility

### Parameters

Name	Description
local	Configure syslog facility

### Usage guidelines

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

### Examples

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

#### URI

`http://host:80/rest/config/running/logging/syslog-facility`

#### Request body

None

#### Response body

```
<syslog-facility y:self="/rest/config/running/logging/syslog-facility">  
  <local>LOG_LOCAL3</local>  
</syslog-facility>
```

The following is an example of the PUT operation to add syslog facility configuration.

#### URI

`http://host:80/rest/config/running/logging/syslog-facility`

#### Request body

```
<syslog-facility>  
  <local>LOG_LOCAL0</local>  
</syslog-facility>
```

#### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## logging/syslog-server

Configures, modifies, or retrieves syslog server configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/logging/syslog-server	Syslog server configuration

### Parameters

Name	Description
<i>syslogip</i>	The IPv4 or IPv6 address
<i>port</i>	Port number on which the syslog server is listening
<i>secure</i>	Indicates if transport is secure

### Usage guidelines

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

### Examples

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

#### URI

```
http://host:80/rest/config/running/logging/syslog-server
```

#### Request body

None

#### Response body

```
<syslog-server y:self="/rest/config/running/logging/syslog-server/10.20.58.160">
  <syslogip>10.20.58.160</syslogip>
  <secure>true</secure>
  <port>65050</port>
</syslog-server>
```

The following is an example of the POST operation to add a syslog server configuration.

#### URI

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

#### Request body

```
<syslog-server>
  <syslogip>10.20.58.162</syslogip>
</syslog-server>
```

#### Response body

None

The following is an example of the DELETE operation to remove a syslog server.

**URI**

`http://host:80/rest/config/running/logging/syslog-server/10.20.58.179`

**Request body**

None

**Response body**

None

***History***

Release version	History
6.0.1	The API call was introduced.

## mac

Configures, modifies, or retrieves MAC access list.

### Resource URIs

URI	Description
<base_URI>/config/running/mac	MAC access list
<base_URI>/config/running/mac/access-list/standard	Standard MAC ACL
<base_URI>/config/running/mac/access-list/standard/{ACL-name}/seq	Sequence number
<base_URI>/config/running/mac/access-list/extended	Extended IP ACL
<base_URI>/config/running/mac/access-list/extended/{ACL-name}/seq	Sequence number

### Parameters

Name	Description
<i>name</i>	Access list name
<i>seq</i>	Sequence number
<i>seq-id</i>	The sequence ID
<i>action</i>	Displays all rules with the specified action <ul style="list-style-type: none"> <li>deny</li> <li>hard-drop</li> <li>permit</li> </ul>
<i>source</i>	Source details
<i>dst</i>	Specifies details on the destination
<i>dsthost</i>	Specifies the destination host
<i>ethertype</i>	Filters extended ACLs traffic based on ethertype
<i>vlan</i>	Specifies the VLAN number
<i>log</i>	Log
<i>count</i>	Displays the count of forwarding entries
<i>srchost</i>	Specifies the source host

### Usage guidelines

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

### Examples

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

#### URI

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

**Request body**

None

**Response body**

```

<mac xmlns="urn:brocade.com:mgmt:brocade-mac-access-list"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/mac">
  <access-list y:self="/rest/config/running/mac/access-list">
    <standard y:self="/rest/config/running/mac/access-list/standard/TEST_ACL">
      <name>TEST_ACL</name>
      <seq
y:self="/rest/config/running/mac/access-list/standard/TEST_ACL/seq/3">
        <seq-id>3</seq-id>
        <action>hard-drop</action>
        <source>any</source>
      </seq>
      <seq
y:self="/rest/config/running/mac/access-list/standard/TEST_ACL/seq/199">
        <seq-id>199</seq-id>
        <action>deny</action>
        <source>any</source>
      </seq>
    </standard>
    <standard y:self="/rest/config/running/mac/access-list/standard/acl2">
      <name>acl2</name>
    </standard>
    <standard y:self="/rest/config/running/mac/access-list/standard/stdmac">
      <name>stdmac</name>
    </standard>
    <extended y:self="/rest/config/running/mac/access-list/extended/MM">
      <name>MM</name>
    </extended>
    <extended y:self="/rest/config/running/mac/access-list/extended/acl12">
      <name>acl12</name>
      <seq y:self="/rest/config/running/mac/access-list/extended/acl12/seq/10">
        <seq-id>10</seq-id>
        <action>permit</action>
        <source>any</source>
        <dst>host</dst>
        <dsthost>0011.2222.2233</dsthost>
        <ethertype>arp</ethertype>
        <vlan>300</vlan>
        <log>true</log>
      </seq>
    </extended>
    <extended y:self="/rest/config/running/mac/access-list/extended/acl4">
      <name>acl4</name>
      <seq y:self="/rest/config/running/mac/access-list/extended/acl4/seq/10">
        <seq-id>10</seq-id>
        <action>deny</action>
        <source>any</source>
        <dst>any</dst>
        <ethertype>arp</ethertype>
        <count>true</count>
      </seq>
    </extended>
    <extended y:self="/rest/config/running/mac/access-list/extended/acl5">
      <name>acl5</name>
      <seq y:self="/rest/config/running/mac/access-list/extended/acl5/seq/10">

```

## 4 Configuration APIs

```
    <seq-id>10</seq-id>
    <action>permit</action>
    <source>any</source>
    <dst>any</dst>
    <vlan>100</vlan>
    <log>true</log>
  </seq>
  <seq y:self="/rest/config/running/mac/access-list/extended/ac15/seq/20">
    <seq-id>20</seq-id>
    <action>permit</action>
    <source>host</source>
    <srchost>0011.2222.3333</srchost>
    <dst>any</dst>
    <ethertype>arp</ethertype>
    <vlan>100</vlan>
    <count>true</count>
    <log>true</log>
  </seq>
</extended>
<extended
y:self="/rest/config/running/mac/access-list/extended/mac-acl-lldp">
  <name>mac-acl-lldp</name>
  <seq
y:self="/rest/config/running/mac/access-list/extended/mac-acl-lldp/seq/10">
  <seq-id>10</seq-id>
  <action>permit</action>
  <source>any</source>
  <dst>host</dst>
  <dsthost>0180.c200.000e</dsthost>
  <count>true</count>
  </seq>
</extended>
</access-list>
</mac>
```

The following is an example of the POST operation to add a new access list name to the MAC access list.

### URI

`http://host:80/rest/config/running/mac/access-list`

### Request body

```
<standard>
  <name>test_API</name>
</standard>
```

### Response body

None

The following is an example of the DELETE operation to remove an extended access list from the MAC access list.

### URI

`http://host:80/rest/config/running/mac/access-list/extended/ac12`

### Request body

None



**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## mac-address-table

Configures, modifies, or retrieves MAC forwarding table information.

### Resource URIs

URI	Description
<base_URI>/config/running/mac-address-table	MAC forwarding table information
<base_URI>/config/running/mac-address-table/aging-time	Aging time. Refer to <a href="#">mac-address-table/aging-time</a> for information
<base_URI>/config/running/mac-address-table/consistency-check	MAC consistency check. Refer to <a href="#">mac-address-table/consistency-check</a> for information
<base_URI>/config/running/mac-address-table/mac-move	MAC move. Refer to <a href="#">mac-address-table/mac-move</a> for information
<base_URI>/config/running/mac-address-table/static	Static address. Refer to <a href="#">mac-address-table/static</a> for information

### Parameters

Name	Description
<i>learning-mode</i>	Conversational learning mode
<i>aging-time</i>	Configures aging time
<i>consistency-check</i>	Configures MAC consistency check
<i>mac-move</i>	Configures MAC move
<i>static</i>	Configures static address

### Usage guidelines

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

### Examples

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

#### URI

```
http://host:80/rest/config/running/mac-address-table
```

#### Request body

None

#### Response body

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

```
<static
y:self="/rest/config/running/mac-address-table/static/0011.2222.3333%2Cforward%2
Cport-channel%2C25%2Cvlan%2C100"/>
  <learning-mode>conversational</learning-mode>
  <aging-time y:self="/rest/config/running/mac-address-table/aging-time"/>>
  <mac-move y:self="/rest/config/running/mac-address-table/mac-move"/>
  <consistency-check
y:self="/rest/config/running/mac-address-table/consistency-check"/>
</mac-address-table>
```

## *History*

Release version	History
5.0.0	The API call was introduced.

## mac-address-table/aging-time

Configures, modifies, or retrieves MAC aging time configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/mac-address-table/aging-time	Aging time

### Parameters

Name	Description
legacy-time-out	Seconds in standalone mode

### Usage guidelines

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

### Examples

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

#### URI

```
http://host:80/rest/config/running/mac-address-table/aging-time
```

#### Request body

None

#### Response body

```
<aging-time y:self="/rest/config/running/mac-address-table/aging-time">
  <legacy-time-out>350</legacy-time-out>
</aging-time>
```

The following is an example of the PATCH operation to edit the legacy timeout.

#### URI

```
http://host:80/rest/config/running/mac-address-table
```

#### Request body

```
<mac-address-table>
  <aging-time>
    <legacy-time-out>360</legacy-time-out>
  </aging-time>
</mac-address-table>
```

### History

Release version	History
5.0.0	The API call was introduced.

## mac-address-table/consistency-check

Configures, modifies, or retrieves MAC consistency check configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/mac-address-table/consistency-check	MAC consistency check

### Parameters

Name	Description
<i>suppress</i>	Suppress MAC consistency check
<i>interval</i>	MAC consistency check interval in seconds

### Usage guidelines

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

### Examples

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

#### URI

```
http://host:80/rest/config/running/mac-address-table/consistency-check
```

#### Request body

None

#### Response body

```
<consistency-check
y:self="/rest/config/running/mac-address-table/consistency-check">
  <suppress>true</suppress>
  <interval>150</interval>
</consistency-check>
```

The following is an example of the PUT operation to add consistency check configurations.

#### URI

```
http://host:80/rest/config/running/mac-address-table/consistency-check
```

#### Request body

```
<consistency-check>
  <interval>150</interval>
</consistency-check>
```

#### Response body

None

## 4 Configuration APIs

The following is an example of the DELETE operation to remove a consistency check interval.

### URI

`http://host:80/rest/config/running/mac-address-table/consistency-check/interval`

### Request body

None

### Response body

None

### *History*

Release version	History
6.0.0	The API call was introduced.

## mac-address-table/mac-move

Configures, modifies, or retrieves MAC move configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/mac-address-table/mac-move	MAC move

### Parameters

Name	Description
<i>detect</i>	Enable MAC move detect
<i>limit</i>	MAC move detect limit

### Usage guidelines

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

### Examples

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

#### URI

```
http://host:80/rest/config/running/mac-address-table/mac-move
```

#### Request body

None

#### Response body

```
<mac-move y:self="/rest/config/running/mac-address-table/mac-move">  
  <detect>true</detect>  
  <limit>20</limit>  
</mac-move>
```

The following is an example of the DELETE operation to remove the MAC move detect limit.

#### URI

```
http://host:80/rest/config/running/mac-address-table/mac-move/limit
```

#### Request body

None

#### Response body

None

## 4 Configuration APIs

### *History*

Release version	History
6.0.0	The API call was introduced.



## mac-address-table/static

Configures, modifies, or retrieves static address information.

### Resource URIs

URI	Description
<base_URI>/config/running/mac-address-table/static	Static address

### Parameters

Name	Description
<i>mac-address</i>	Specifies the MAC address
<i>forward</i>	Forwards the MAC address to the interface
<i>interface-type</i>	The interface type
<i>interface-name</i>	The interface name
<i>vlanid</i>	Specifies the VLAN number

### Usage guidelines

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

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/mac-address-table/static
```

#### Request body

None

#### Response body

```
<static
y:self="/rest/config/running/mac-address-table/static/0011.2222.3333%2Cforward%2
port-channel%2C25%2Cvlan%2C100">
  <mac-address>0011.2222.3333</mac-address>
  <forward>forward</forward>
  <interface-type>port-channel</interface-type>
  <interface-name>25</interface-name>
  <vlan>vlan</vlan>
  <vlanid>100</vlanid>
</static>
```

The following is an example of the DELETE operation to remove the static configurations.

#### URI

```
http://host:80/rest/config/running/mac-address-table/static
```

## 4 Configuration APIs

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## mac-group

Configures, modifies, or retrieves MAC group configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/mac-group	MAC group configuration
<base_URI>/config/running/mac-group/mac-group-entry	Add mac-address to the mac-group

### Parameters

Name	Description
mac-group-id	Specifies the MAC group ID
entry-address	Mac address in HHHH.HHHH.HHHH format

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/mac-group
```

#### Request body

None

#### Response body

```
<mac-group xmlns="urn:brocade.com:mgmt:brocade-mac-address-table"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/mac-group">
  <mac-group-id>1</mac-group-id>
  <mac-group-entry>
    <entry-address>000a.0001.0001</entry-address>
  </mac-group-entry>
</mac-group>
```

### History

Release version	History
6.0.0	The API call was introduced.

## monitor

Configures, modifies, or retrieves SPAN sessions.

### Resource URIs

URI	Description
<base_URI>/config/running/monitor	Entering SPAN sessions

### Parameters

Name	Description
<i>session-number</i>	Specifies a session identification number
<i>destination</i>	The destination port
<i>source</i>	The source port
<i>description</i>	Description string of session
<i>fortygigabitethernet</i>	Interface Fortygigabit Ethernet
<i>gigabitethernet</i>	Interface Gigabit Ethernet
<i>hundredgigabitethernet</i>	Interface Hundredgigabit Ethernet
<i>rspan-vlan</i>	Remote VLAN
<i>tengigabitethernet</i>	Interface Tengigabit Ethernet

### Usage guidelines

GET, POST, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

`http://host:80/rest/config/running/monitor`

#### Request body

None

#### Response body

```
<monitor xmlns="urn:brocade.com:mgmt:brocade-span"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/monitor">
  <session y:self="/rest/config/running/monitor/session/10">
    <session-number>10</session-number>
    <destination>destination</destination>
    <dest-tengigabitethernet>fortygigabitethernet</dest-tengigabitethernet>
    <dest-tengigabitethernet-val>54/0/49</dest-tengigabitethernet-val>
  </session>
  <session y:self="/rest/config/running/monitor/session/20">
    <session-number>20</session-number>
```

```

    <source>source</source>
    <src-tengigabitethernet>fortygigabitethernet</src-tengigabitethernet>
    <src-tengigabitethernet-val>54/0/50</src-tengigabitethernet-val>
    <destination>destination</destination>
    <dest-tengigabitethernet>fortygigabitethernet</dest-tengigabitethernet>
    <dest-tengigabitethernet-val>54/0/49</dest-tengigabitethernet-val>
    <direction>both</direction>
  </session>
</monitor>

```

The following is an example of the POST operation to add a session to the monitor.

#### URI

```
http://host:80/rest/config/running/monitor
```

#### Request body

```

<session>
  <session-number>50</session-number>
</session>

```

#### Response body

None

The following is an example of the DELETE operation to remove a session from the monitor session.

#### URI

```
http://host:80/rest/config/running/monitor/session/25
```

#### Request body

None

#### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## nas

Configures, modifies, or retrieves network attached storage configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/nas	Network attached storage
<base_URI>/config/running/nas/auto-qos	Automatic quality of service. Refer to <a href="#">nas/auto-qos</a> for information
<base_URI>/config/running/nas/server-ip	NAS server. Refer to <a href="#">nas/server-ip</a> for information

### Parameters

Name	Description
<i>auto-qos</i>	Automatic Quality of Service
<i>server-ip</i>	NAS server IP address

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

`http://host:80/rest/config/running/nas`

#### Request body

None

#### Response body

```
<nas xmlns="urn:brocade.com:mgmt:brocade-qos"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/nas">
  <auto-qos y:self="/rest/config/running/nas/auto-qos" />
  <server-ip
y:self="/rest/config/running/nas/server-ip/%2210.192.100.100/32%22" />
</nas>
```

### History

Release version	History
5.0.0	The API call was introduced.

## nas/auto-qos

Configures, modifies, or retrieves automatic Quality of Service configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/nas/auto-qos	Automatic quality of service
<base_URI>/config/running/nas/auto-qos/set	Class of service and Differentiated services code point

### Parameters

Name	Description
cos	Class of service value
dscp	Differentiated services code point value

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/nas/auto-qos
```

#### Request body

None

#### Response body

```
<auto-qos y:self="/rest/config/running/nas/auto-qos">
  <set y:self="/rest/config/running/nas/auto-qos/set">
    <cos>4</cos>
    <dscp>55</dscp>
  </set>
</auto-qos>
```

The following is an example of the DELETE operation to remove Automatic Quality of Service.

#### URI

```
http://host:80/rest/config/running/nas
```

#### Request body

None

#### Response body

None

## 4 Configuration APIs

### *History*

Release version	History
5.0.0	The API call was introduced.



## nas/server-ip

Configures, modifies, or retrieves network attached storage server configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/nas/server-ip	NAS server

### Parameters

Name	Description
cos	Class of service value
dscp	Differentiated services code point value
server-ip	NAS server IP address
vlan-number	Virtual LAN
vrf-name	Virtual routing and forwarding

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/nas/server-ip
```

#### Request body

None

#### Response body

```
<server-ip y:self="/rest/config/running/nas/server-ip/%2210.192.100.100/32%22">
  <server-ip>10.192.100.100/32</server-ip>
  <vrf
y:self="/rest/config/running/nas/server-ip/%2210.192.100.100/32%22/vrf/vrf1">
    <vrf-name>vrf1</vrf-name>
  </vrf>
  <vlan
y:self="/rest/config/running/nas/server-ip/%2210.192.100.100/32%22/vlan/100">
    <vlan-number>100</vlan-number>
  </vlan>
</server-ip>
```

The following is an example of the POST operation to add the server IP details.

#### URI

```
http://host:80/rest/config/running/nas
```

## 4 Configuration APIs

### Request body

```
<server-ip>
  <server-ip>10.192.100.100/32</server-ip>
  <vlan>
    <vlan-number>100</vlan-number>
  </vlan>
</server-ip>
```

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## nsx-controller

Configures, modifies, or retrieves NSX controller configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/nsx-controller	NSX controller configurations
<base_URI>/config/running/nsx-controller/ip	IP address, port and connection method. Refer to <a href="#">nsx-controller/ip</a> for information

### Parameters

Name	Description
<i>name</i>	NSX Controller name
<i>activate</i>	Activate the connection
<i>reconnect-interval</i>	Reconnect interval

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the NSX controller configuration details.

#### URI

```
http://host:80/rest/config/running/nsx-controller
```

#### Request body

None

#### Response body

```
<nsx-controller xmlns="urn:brocade.com:mgmt:brocade-tunnels"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/nsx-controller/nsx-cont1">
  <name>nsx-cont1</name>
  <activate>true</activate>
  <ip y:self="/rest/config/running/nsx-controller/nsx-cont1/ip"/>
  <reconnect-interval>15</reconnect-interval>
</nsx-controller>
```

The following is an example of the DELETE operation to remove the reconnect interval.

#### URI

```
http://host:80/rest/config/running/nsx-controller/nsx21/reconnect-interval
```

## 4 Configuration APIs

### Request body

None

### Response body

None

### *History*

Release version	History
6.0.0	The API call was introduced.

## nsx-controller/ip

Configures, modifies, or retrieves IP NSX controller configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/nsx-controller/ip	IP address, port and connection method

### Parameters

Name	Description
<i>address</i>	IP address of NSX controller
<i>port</i>	NSX controller port number
<i>method</i>	Connection method

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the NSX controller configuration details.

#### URI

```
http://host:80/rest/config/running/nsx-controller/nsx-cont1/ip
```

#### Request body

None

#### Response body

```
<ip y:self="/rest/config/running/nsx-controller/nsx-cont1/ip">
  <address>1.1.1.1</address>
  <port>6652</port>
  <method>ssl</method>
</ip>
```

The following is an example of the PUT operation to add the IP NSX controller configurations.

#### URI

```
http://host:80/rest/config/running/nsx-controller/nsx21/ip
```

#### Request body

```
<ip>
  <address>1.1.1.1</address>
  <port>6652</port>
</ip>
```

## 4 Configuration APIs

### Response body

None

The following is an example of the DELETE operation to remove the IP NSX controller address configurations.

### URI

```
http://host:80/rest/config/running/nsx-controller/nsx21/ip/address
```

### Request body

None

### Response body

None

### *History*

Release version	History
6.0.0	The API call was introduced.

## ntp

Configures, modifies, or retrieves NTP commands.

### Resource URIs

URI	Description
<base_URI>/config/running/ntp	NTP commands
<base_URI>/config/running/ntp/authentication-key	Authentication key. Refer to <a href="#">ntp/authentication-key</a> for information
<base_URI>/config/running/ntp/server	NTP server. Refer to <a href="#">ntp/server</a> for information

### Parameters

Name	Description
<i>authentication-key</i>	Configures authentication key
<i>keyid</i>	Authentication key ID
<i>sha1</i>	Encryption type
<i>encryption-level</i>	Level of encryption
<i>server</i>	Configures NTP server
<i>source-ip</i>	Configures the source ip to be used for NTP

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/ntp
```

#### Request body

None

#### Response body

```
<ntp xmlns="urn:brocade.com:mgmt:brocade-ntp"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/ntp">
  <authentication-key y:self="/rest/config/running/ntp/authentication-key/1"/>
  <server y:self="/rest/config/running/ntp/server/10.24.234.86"/>
  <source-ip>chassis-ip</source-ip>
</ntp>
```

## 4 Configuration APIs

### *History*

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the parameter <i>source-ip</i> .



## ntp/authentication-key

Configures, modifies, or retrieves authentication key configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/ntp/authentication-key	Authentication key

### Parameters

Name	Description
keyid	ID for an authentication key
md5	String for the MD5 message-digest algorithm

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/ntp/authentication-key
```

#### Request body

None

#### Response body

```
<authentication-key y:self="/rest/config/running/ntp/authentication-key/1">
  <keyid>1</keyid>
  <sha1>key1</sha1>
  <encryption-level>0</encryption-level>
</authentication-key>
```

The following is an example of the POST operation to add an authentication key ID.

#### URI

```
http://host:80/rest/config/running/ntp
```

#### Request body

```
<authentication-key>
  <keyid>65</keyid>
  <md5>test</md5>
</authentication-key>
```

#### Response body

None

## 4 Configuration APIs

The following is an example of the DELETE operation to remove the authentication key configurations.

### URI

`http://host:80/rest/config/running/ntp/authentication-key`

### Request body

None

### Response body

None

### *History*

Release version	History
6.0.1	The API call was introduced.

## ntp/server

Configures, modifies, or retrieves NTP server configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/ntp/server	NTP server

### Parameters

Name	Description
<i>ip</i>	NTP server IPv4 or IPv6 IP address
<i>key</i>	Key from the key list to be associated with the specified server

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/ntp/server
```

#### Request body

None

#### Response body

```
<server y:self="/rest/config/running/ntp/server/10.24.234.86">  
  <ip>10.24.234.86</ip>  
  <key>55</key>  
</server>
```

The following is an example of the POST operation to add an NTP server IP address.

#### URI

```
http://host:80/rest/config/running/ntp
```

#### Request body

```
<server>  
  <ip>1.1.1.1</ip>  
</server>
```

#### Response body

None

The following is an example of the DELETE operation to remove an NTP server IP address.

## 4 Configuration APIs

### URI

`http://host:80/rest/config/running/ntp/server/ip`

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## openflow-controller

Configures, modifies, or retrieves OpenFlow controller commands.

### Resource URIs

URI	Description
<base_URI>/config/running/openflow-controller	OpenFlow controller configuration
<base_URI>/config/running/openflow-controller/ip	IP address, connection method and port configuration.

### Parameters

Name	Description
<i>controller-name</i>	OpenFlow controller name
<i>address</i>	IP address of OpenFlow controller
<i>method</i>	Sets the connection method
<i>port</i>	OpenFlow controller port number

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/openflow-controller
```

#### Request body

None

#### Response body

```
<openflow-controller xmlns="urn:brocade.com:mgmt:brocade-openflow"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/openflow-controller/test1">
  <controller-name>test1</controller-name>
  <ip y:self="/rest/config/running/openflow-controller/test1/ip">
    <address>1.1.1.1</address>
    <method>ssl</method>
    <port>50</port>
  </ip>
</openflow-controller>
```

The following is an example of the POST operation to add openflow-controller IP configurations.

#### URI

```
http://host:80/rest/config/running/openflow-controller/test1/ip
```

## 4 Configuration APIs

### Request body

```
<ip>
  <address>10.10.10.10</address>
  <port>55</port>
</ip>
```

### Response body

None

The following is an example of the DELETE operation to remove the openflow-controller IP address configuration.

### URI

`http://host:80/rest/config/running/openflow-controller/test1/ip`

### Request body

None

### Response body

None

### *History*

Release version	History
6.0.0	The API call was introduced.

## overlay-gateway

Configures, modifies, or retrieves overlay gateway instances.

### Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway	Overlay gateway instances
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}	Overlay gateway instance
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/attach	Attach gateway instance. Refer to <a href="#">overlay-gateway/attach</a> for information.
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/enable	Enable statistics. Refer to <a href="#">overlay-gateway/enable</a> for information.
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/ip	IP Overlay gateway instance. Refer to <a href="#">overlay-gateway/ip</a> for information.
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/ipv6	IPv6 Overlay gateway instance. Refer to <a href="#">overlay-gateway/ipv6</a> for information.
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/mac	MAC configuration for the overlay-gateway. Refer to <a href="#">overlay-gateway/mac</a> for information.
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/map	Map gateway instance. Refer to <a href="#">overlay-gateway/map</a> for information.
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/monitor	Configure SPAN for the tunnels of this gateway. Refer to <a href="#">overlay-gateway/monitor</a> for information.
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/site	Configure remote extension site. Refer to <a href="#">overlay-gateway/site</a> for information.

### Parameters

Name	Description
<i>name</i>	Overlay gateway name
<i>type</i>	Gateway type

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/overlay-gateway
```

#### Request body

None

### Response body

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/overlay-gateway/g1">
  <name>g1</name>
  <type>layer2-extension</type>
  <ip y:self="/rest/config/running/overlay-gateway/g1/ip"/>
  <attach y:self="/rest/config/running/overlay-gateway/g1/attach"/>
  <map y:self="/rest/config/running/overlay-gateway/g1/map"/>
  <monitor y:self="/rest/config/running/overlay-gateway/g1/monitor"/>
  <enable y:self="/rest/config/running/overlay-gateway/g1/enable"/>
  <mac y:self="/rest/config/running/overlay-gateway/g1/mac"/>
  <ipv6 y:self="/rest/config/running/overlay-gateway/g1/ipv6"/>
  <activate>true</activate>
  <name>og1</name>
  <site xmlns="urn:brocade.com:mgmt:brocade-tunnels"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/overlay-gateway/og1/site/site1"/>
</overlay-gateway>
```

### History

Release version	History
6.0.0	The API call was introduced.



## overlay-gateway/attach

Configures, modifies, or retrieves overlay gateway instances.

### Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/attach	Attach gateway instance

### Parameters

Name	Description
<i>add</i>	Add RBridge-ID
<i>vid</i>	VLAN ID
<i>mac</i>	VLAN MAC attachment

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/overlay-gateway/og1/attach
```

#### Request body

None

#### Response body

```
<attach y:self="/rest/config/running/overlay-gateway/og1/attach">
  <rbridge-id
y:self="/rest/config/running/overlay-gateway/og1/attach/rbridge-id">
    <add>1</add>
  </rbridge-id>
  <vlan
y:self="/rest/config/running/overlay-gateway/og1/attach/vlan/1%2C0000.1111.1122"
  >
    <vid>1</vid>
    <mac>0000.1111.1122</mac>
  </vlan>
</attach>
```

### History

Release version	History
6.0.0	The API call was introduced.

## overlay-gateway/enable

Configures, modifies, or retrieves overlay gateway instances.

### Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/enable	Enable statistics

### Parameters

Name	Description
<i>direction</i>	Specify flow direction
<i>vlan</i>	Add or remove target VLAN
<i>vlan-list</i>	VLAN number

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/overlay-gateway/g1/enable
```

#### Request body

None

#### Response body

```
<enable y:self="/rest/config/running/overlay-gateway/g1/enable">
  <statistics
y:self="/rest/config/running/overlay-gateway/g1/enable/statistics">
    <direction>both</direction>
    <vlan>add</vlan>
    <vlan-list>1</vlan-list>
  </statistics>
</enable>
```

The following is an example of the PUT operation to add overlay gateway configurations.

#### URI

```
http://host:80/rest/config/running/overlay-gateway/og1/enable/statistics
```

#### Request body

```
<statistics>
  <direction>both</direction>
  <vlan>add</vlan>
```

```
<vlan-list>1</vlan-list>
</statistics>
```

**Response body**

None

The following is an example of the DELETE operation to remove the overlay gateway enable configurations.

**URI**

`http://host:80/rest/config/running/overlay-gateway/og1/enable/statistics`

**Request body**

None

**Response body**

None

***History***

Release version	History
6.0.0	The API call was introduced.

## overlay-gateway/ip

Configures, modifies, or retrieves IP overlay gateway instances.

### Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/ip	IP Overlay gateway instance.

### Parameters

Name	Description
ve-id	VE interface number
vrrp-extended-group	VRRP-E group id
loopback-id	Loopback port number

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/overlay-gateway/g1/ip
```

#### Request body

None

#### Response body

```
<ip y:self="/rest/config/running/overlay-gateway/g1/ip">
  <interface y:self="/rest/config/running/overlay-gateway/g1/ip/interface">
    <Ve y:self="/rest/config/running/overlay-gateway/g1/ip/interface/Ve">
      <ve-id>10</ve-id>
      <fabric-virtual-gateway
y:self="/rest/config/running/overlay-gateway/gateway1/ip/interface/Ve/fabric-vir
tual-gateway"/>
      <vrrp-extended-group>100</vrrp-extended-group>
    </Ve>
    <Loopback
y:self="/rest/config/running/overlay-gateway/g1/ip/interface/Loopback">
      <loopback-id>121</loopback-id>
    </loopback>
  </interface>
</ip>
```

## *History*

Release version	History
6.0.0	The API call was introduced.

## overlay-gateway/ipv6

Configures, modifies, or retrieves IPv6 overlay gateway instances.

### Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/ipv6	IPv6 Overlay gateway instance

### Parameters

Name	Description
mac-access-list	IPv6 access group name

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/overlay-gateway/g1/ipv6
```

#### Request body

None

#### Response body

```
<ipv6 y:self="/rest/config/running/overlay-gateway/g1/ipv6">
  <access-group>
    <mac-access-list>stdipv6aclin</mac-access-list>
  </access-group>
</ipv6>
```

### History

Release version	History
6.0.0	The API call was introduced.

## overlay-gateway/mac

Configures, modifies, or retrieves MAC configuration for the overlay gateway.

### Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/mac	MAC configuration for the overlay-gateway

### Parameters

Name	Description
mac-access-list	MAC access group name
mac-direction	MAC access group in ingress direction

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/overlay-gateway/g1/mac
```

#### Request body

None

#### Response body

```
<mac y:self="/rest/config/running/overlay-gateway/g1/mac">
  <access-group>
    <mac-access-list>test_05</mac-access-list>
    <mac-direction>in</mac-direction>
  </access-group>
</mac>
```

The following is an example of the DELETE operation to remove the overlay gateway MAC configurations.

#### URI

```
http://host:80/rest/config/running/overlay-gateway/og1/mac/access-group
```

#### Request body

None

#### Response body

None

## 4 Configuration APIs

### *History*

Release version	History
6.0.0	The API call was introduced.



## overlay-gateway/map

Configures, modifies, or retrieves MAP overlay gateway instances.

### Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/map	Map gateway instance

### Parameters

Name	Description
vniid	VNI range

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/overlay-gateway/g1/map
```

#### Request body

None

#### Response body

```
<map y:self="/rest/config/running/overlay-gateway/g1/map">
  <vlan y:self="/rest/config/running/overlay-gateway/g1/map/vlan">
    <vni y:self="/rest/config/running/overlay-gateway/g1/map/vlan/vni">
      <vniid>5</vniid>
    </vni>
  </vlan>
</map>
```

The following is an example of the POST operation to add overlay gateway MAP configurations.

#### URI

```
http://host:80/rest/config/running/overlay-gateway/og1/map
```

#### Request body

```
<vlan-vni-mapping>
  <vlan>100</vlan>
  <vni>1</vni>
</vlan-vni-mapping>
```

## 4 Configuration APIs

### Response body

None

The following is an example of the DELETE operation to remove the overlay gateway MAC configurations.

### URI

`http://host:80/rest/config/running/overlay-gateway/ogl/map/vlan-vni-mapping/100`

### Request body

None

### Response body

None

### *History*

Release version	History
6.0.0	The API call was introduced.

## overlay-gateway/monitor

Configures, modifies, or retrieves SPAN configurations for overlay gateway instances.

### Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/monitor	Configure SPAN for the tunnels of this gateway

### Parameters

Name	Description
session	Monitor session number
direction	Specify flow direction
remote-endpoint	Tunnel destination end point address
vlan-add	Specify target VLAN IDs to add
vlan-range	Specify the VLAN range

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/overlay-gateway/og1/monitor
```

#### Request body

None

#### Response body

```
<monitor y:self="/rest/config/running/overlay-gateway/og1/monitor">
  <session>1</session>
  <direction>both</direction>
  <remote-endpoint>any</remote-endpoint>
  <vlan-add>add</vlan-add>
  <vlan-range>5,14-17</vlan-range>
</monitor>
```

### History

Release version	History
6.0.0	The API call was introduced.

## overlay-gateway/site

Configures, modifies, or retrieves overlay gateway instances.

### Resource URIs

URI	Description
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/site	Configure remote extension site
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/site/ip	Configure IP address for the site
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/site/extend	Configure layer2 domains to be extended towards this site
<base_URI>/config/running/overlay-gateway/{overlay-gateway name}/site/bfd	Create BFD session for the tunnels to the remote site

### Parameters

Name	Description
<i>name</i>	Site identifier
<i>address</i>	Tunnel destination IP address
<i>add</i>	Add VLAN IDs
<i>bfd</i>	Enable BFD session
<i>min-tx</i>	BFD desired minimum transmit interval
<i>min-rx</i>	BFD required minimum receive interval
<i>multiplier</i>	BFD detection time multiplier
<i>shutdown</i>	Disable tunnels

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/overlay-gateway/og1/site
```

#### Request body

None

#### Response body

```
<site y:self="/rest/config/running/overlay-gateway/og1/site/site1">
  <name>site1</name>
  <ip y:self="/rest/config/running/overlay-gateway/og1/site/site1/ip/1.1.1.1">
```

```

    <address>1.1.1.1</address>
  </ip>
  <extend y:self="/rest/config/running/overlay-gateway/og1/site/site1/extend">
    <vlan
y:self="/rest/config/running/overlay-gateway/og1/site/site1/extend/vlan">
      <add>1</add>
    </vlan>
  </extend>
  <bfd>true</bfd>
  <bfd y:self="/rest/config/running/overlay-gateway/og1/site/site1/bfd">
    <interval
y:self="/rest/config/running/overlay-gateway/og1/site/site1/bfd/interval">
      <min-tx>2000</min-tx>
      <min-rx>3000</min-rx>
      <multiplier>26</multiplier>
    </interval>
  </bfd>
  <shutdown>true</shutdown>
</site>

```

The following is an example of the PUT operation to add overlay gateway BFD configurations.

#### URI

`http://host:80/rest/config/running/overlay-gateway/og1/site/s1/bfd/interval`

#### Request body

```

<interval>
  <min-tx>1000</min-tx>
  <min-rx>3000</min-rx>
  <multiplier>24</multiplier>
</interval>

```

#### Response body

None

The following is an example of the DELETE operation to remove the overlay gateway BFD configurations.

#### URI

`http://host:80/rest/config/running/overlay-gateway/og1/site/s1/bfd/interval`

#### Request body

None

#### Response body

None

### History

Release version	History
6.0.0	The API call was introduced.
6.0.1	The API call was modified to include the new URI <base_URI>/config/running/overlay-gateway/{overlay-gateway name}/site/bfd.

## password-attributes

Configures, modifies, or retrieves user password attributes.

### Resource URIs

URI	Description
<base_URI>/config/running/password-attributes	System-wide user password attributes
<base_URI>/config/running/password-attributes/character-restriction	Restriction on various types of characters. Refer to <a href="#">password-attributes/character-restriction</a> for information

### Parameters

Name	Description
<i>max-lockout-duration</i>	Maximum number of minutes after which the user account is unlocked
<i>admin-lockout</i>	Enable lockout for admin role accounts after maximum retry failed login attempts
<i>min-length</i>	The minimum length of the password
<i>max-retry</i>	Number of failed password logins permitted before a user is locked out
<i>character-restriction</i>	Configures restriction on various types of characters

### Usage guidelines

GET, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/password-attributes
```

#### Request body

None

#### Response body

```
<password-attributes xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/password-attributes">
  <max-lockout-duration>12</max-lockout-duration>
  <min-length>9</min-length>
  <max-retry>3</max-retry>
  <character-restriction
y:self="/rest/config/running/password-attributes/character-restriction"/>
  <admin-lockout>true</admin-lockout>
</password-attributes>
```

The following is an example of the PUT operation to configure the password attributes.

**URI**

`http://host:80/rest/config/running/password-attributes`

**Request body**

```
<password-attributes>
  <max-lockout-duration>10</max-lockout-duration>
  <min-length>11</min-length>
  <max-retry>5</max-retry>
</password-attributes>
```

**Response body**

None

The following is an example of the DELETE operation to remove the maximum retry value.

**URI**

`http://host:80/rest/config/running/password-attributes/max-retry`

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the parameter <i>max-lockout-duration</i> .

## password-attributes/character-restriction

Configures, modifies, or retrieves character restriction configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/password-attributes/character-restriction	Restriction on various types of characters

### Parameters

Name	Description
<i>max-lockout-duration</i>	Maximum number of minutes after which the user account is unlocked
<i>admin-lockout</i>	Enable lockout for admin role accounts after maximum retry failed login attempts
<i>min-length</i>	The minimum length of the password
<i>max-retry</i>	Number of failed password logins permitted before a user is locked out
<i>lower</i>	Number of lowercase alphabetic characters that must occur in the password
<i>numeric</i>	Minimum number of numeric characters that must occur in the password
<i>special-char</i>	The number of punctuation characters that must occur in the password
<i>upper</i>	Number of uppercase alphabetic characters that must occur in the password

### Usage guidelines

GET, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/password-attributes/character-restriction
```

#### Request body

None

#### Response body

```
<character-restriction
y:self="/rest/config/running/password-attributes/character-restriction">
  <upper>1</upper>
  <lower>1</lower>
  <numeric>1</numeric>
  <special-char>1</special-char>
</character-restriction>
```

The following is an example of the PATCH operation to modify the character restriction parameters.



**URI**

`http://host:80/rest/config/running/password-attributes`

**Request body**

```
<password-attributes>
  <character-restriction>
    <upper>2</upper>
    <lower>2</lower>
    <numeric>2</numeric>
    <special-char>1</special-char>
  </character-restriction>
</password-attributes>
```

**Response body**

None

The following is an example of the DELETE operation to change to the default setting.

**URI**

`http://host:80/rest/config/running/password-attributes`

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## policy-map

Configures, modifies, or retrieves policy map configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/policy-map	Policy map configurations
<base_URI>/config/running/policy-map/class	Policy map class configuration

### Parameters

Name	Description
<i>po-name</i>	Policy map name
<i>cl-name</i>	Policy map class name
<i>cir</i>	Committed information rate
<i>conform-set-dscp</i>	DSCP priority for conforming traffic
<i>conform-set-tc</i>	Traffic class value for conforming traffic
<i>exceed-set-dscp</i>	DCSP priority for exceeded traffic
<i>exceed-set-tc</i>	Traffic class value for exceeded traffic

### Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the policy map configuration details.

#### URI

http://host:80/rest/config/running/policy-map

#### Request body

None

#### Response body

```
<policy-map xmlns="urn:brocade.com:mgmt:brocade-policer"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/policy-map/p2">
  <po-name>p2</po-name>
  <class y:self="/rest/config/running/policy-map/p2/class/ip1">
    <cl-name>ip1</cl-name>
    <police y:self="/rest/config/running/policy-map/p2/class/ip1/police">
      <cir>608000000</cir>
      <cbs>1300</cbs>
      <conform-set-dscp>56</conform-set-dscp>
      <conform-set-tc>2</conform-set-tc>
      <exceed-set-dscp>40</exceed-set-dscp>
```

```
<exceed-set-tc>1</exceed-set-tc>
</police>
<set y:self="/rest/config/running/policy-map/p2/class/ip1/set"/>
<span y:self="/rest/config/running/policy-map/p2/class/ip1/span"/>
<map y:self="/rest/config/running/policy-map/p2/class/ip1/map"/>
</class>
</policy-map>
```

The following is an example of the DELETE operation to remove the policy map named po.

**URI**

`http://host:80/rest/config/running/policy-map/po`

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.1	The API call was introduced.

## port-channel-redundancy-group

Configures, modifies, or retrieves list of port-channel redundancy groups.

### Resource URIs

URI	Description
<base_URI>/config/running/port-channel-redundancy-group	The list of port-channel redundancy groups
<base_URI>/config/running/port-channel-redundancy-group/port-channel	The list of port-channels. Refer to <a href="#">port-channel-redundancy-group/port-channel</a> for information

### Parameters

Name	Description
<i>group-id</i>	Portchannel Redundancy Group number
<i>activate</i>	Activate the port-channel redundancy group
<i>port-channel</i>	The list of port channels

### Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the lthe configuration details.

#### URI

```
http://host:80/rest/config/running/port-channel-redundancy-group
```

#### Request body

None

#### Response body

```
<port-channel-redundancy-group xmlns="urn:brocade.com:mgmt:brocade-lag"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/port-channel-redundancy-group/2">
  <group-id>2</group-id>
  <activate>true</activate>
  <port-channel
y:self="/rest/config/running/port-channel-redundancy-group/2/port-channel/2"/>
</port-channel-redundancy-group>
```

### History

Release version	History
6.0.0	The API call was introduced.

## port-channel-redundancy-group/port-channel

Configures, modifies, or retrieves list of port-channel redundancy groups.

### Resource URIs

URI	Description
<base_URI>/config/running/port-channel-redundancy-group/port-channel	The list of port-channels

### Parameters

Name	Description
<i>group-id</i>	Portchannel Redundancy Group number
<i>activate</i>	Activate the port-channel redundancy group
<i>name</i>	Portchannel interface number
<i>active</i>	Select port-channel as active in port-channel redundancy group

### Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the lthe configuration details.

#### URI

```
http://host:80/rest/config/running/port-channel-redundancy-group/port-channel
```

#### Request body

None

#### Response body

```
<port-channel
y:self="/rest/config/running/port-channel-redundancy-group/2/port-channel/2">
  <name>2</name>
  <active>true</active>
</port-channel>
```

The following is an example of the POST operation to add a port channel.

#### URI

```
http://host:80/rest/config/running/port-channel-redundancy-group/2
```

#### Request body

```
<port-channel>
  <name>3</name>
</port-channel>
```

## 4 Configuration APIs

### Response body

None

The following is an example of the DELETE operation to delete the port channel configuration.

### URI

`http://host:80/rest/config/running/port-channel-redundancy-group/2/port-channel`

### Request body

None

### Response body

None

### *History*

Release version	History
6.0.0	The API call was introduced.

## port-profile

Configures, modifies, or retrieves automatic port-profile.

### Resource URIs

URI	Description
<base_URI>/config/running/port-profile	Automatic port-profile

### Parameters

Name	Description
<i>name</i>	Port-profile name
<i>non-profiled-macs</i>	Allow or drop non-profiled MAC addresses
<i>switchport</i>	Set the switching characteristics of the Layer 2 interface
<i>vlan-mode</i>	Set mode of the Layer 2 interface
<i>native-vlan</i>	Set the native VLAN to classify untagged traffic
<i>foe-map-name</i>	Fabric-map name
<i>restrict-flooding</i>	Restrict flooding
<i>activate</i>	Specifies if this port-profile needs to be activated or not
<i>mac-address</i>	MAC address for a port-profile
<i>cee</i>	QoS CEE Map for the port
<i>cos</i>	The Range of Default CoS value
<i>trust-cos</i>	Specifies that trust L2 CoS field in incoming packets for deriving internal Traffic Class
<i>cos-mutation</i>	CoS-to-CoS mutation value
<i>pfc-cos</i>	Range for CoS Value
<i>pfc-tx</i>	Pause generation is enabled or disabled
<i>pfc-rx</i>	Pause reception is enabled or disabled
<i>tx</i>	Pause generation is enabled or disabled
<i>rx</i>	Pause reception is enabled or disabled
<i>access-group-name</i>	Access list name
<i>direction</i>	in
<i>vlan-type</i>	VLAN type

### Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

### URI

http://host:80/rest/config/running/port-profile

### Request body

None

### Response body

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/port-profile/default">
  <name>default</name>
  <activate></activate>
  <allow y:self="/rest/config/running/port-profile/default/allow">
    <non-profiled-macs>true</non-profiled-macs>
  </allow>
  <vlan-profile y:self="/rest/config/running/port-profile/default/vlan-profile">
    <switchport>true</switchport>
    <switchport
y:self="/rest/config/running/port-profile/default/vlan-profile/switchport">
      <mode
y:self="/rest/config/running/port-profile/default/vlan-profile/switchport/mode">
        <vlan-mode>trunk</vlan-mode>
      </mode>
      <access
y:self="/rest/config/running/port-profile/default/vlan-profile/switchport/access
">
        <vlan
y:self="/rest/config/running/port-profile/default/vlan-profile/switchport/access
/vlan"/>
          </access>
          <trunk
y:self="/rest/config/running/port-profile/default/vlan-profile/switchport/trunk"
>
            <allowed
y:self="/rest/config/running/port-profile/default/vlan-profile/switchport/trunk/
allowed">
              <vlan
y:self="/rest/config/running/port-profile/default/vlan-profile/switchport/trunk/
allowed/vlan"/>
                </allowed>
                <native-vlan>1</native-vlan>
              </trunk>
            </switchport>
          </vlan-profile>
          <fcoe-profile y:self="/rest/config/running/port-profile/default/fcoe-profile">
            <fcoeport
y:self="/rest/config/running/port-profile/default/fcoe-profile/fcoeport">
              <fcoe-map-name>default</fcoe-map-name>
            </fcoeport>
          </fcoe-profile>
          <static y:self="/rest/config/running/port-profile/default/qos-profile/static">
            <mac-address>0050.56bf:0001</mac-address>
          </static>
          <qos-profile y:self="/rest/config/running/port-profile/default/qos-profile">
            <cee>map1</cee>
            <qos y:self="/rest/config/running/port-profile/default/qos-profile"/qos>
              <cos>1</cos>
```



```

    <trust
y:self="/rest/config/running/port-profile/default/qos-profile/qos/trust">
    <trust-cos>true</trust-cos>
    </trust>
    <cos-mutation>map1</cos-mutation>
    <cos-traffic-class>map2</cos-traffic-class>
    <flowcontrol
y:self="/rest/config/running/port-profile/default/qos-profile/qos/flowcontrol">
    <pfc>
    <pfc-cos>1</pfc-cos>
    <pfc-tx>on</pfc-tx>
    <pfc-rx>on</pfc-rx>
    </pfc>
    <flowcontrolglobal>
    <tx>on</tx>
    <rx>on</rx>
    </flowcontrolglobal>
    </flowcontrol>
    <qos>
    </qos-profile>
    <security-profile
y:self="/rest/config/running/port-profile/default/security-profile">
    <mac
y:self="/rest/config/running/port-profile/default/security-profile/mac">
    <access-group
y:self="/rest/config/running/port-profile/default/security-profile/mac/access-gr
oup">
    <access-group-name>acl1</access-group-name>
    <direction>in</direction>
    </access-group>
    </mac>
    </security-profile>
    <restrict-flooding>true</restrict-flooding>
</port-profile>

```

The following is an example of the DELETE operation to remove a port-profile name.

#### URI

<http://host:80/rest/config/running/port-profile/PortProfile1>

#### Request body

None

#### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## port-profile-domain

Configures, modifies, or retrieves port-profile domain configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/port-profile-domain	Define a port-profile domain
<base_URI>/config/running/port-profile-domain/{port-profile-domain name}/port-profile	Port-profile name

### Parameters

Name	Description
<i>port-profile-domain-name</i>	A fabric-wide unique name of a port-profile domain
<i>profile-name</i>	A fabric-wide unique name of a port-profile

### Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/port-profile-domain
```

#### Request body

None

#### Response body

```
<port-profile-domain xmlns="urn:brocade.com:mgmt:brocade-port-profile"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/port-profile-domain/default">
  <port-profile-domain-name>default</port-profile-domain-name>
  <port-profile
y:self="/rest/config/running/port-profile-domain/default/port-profile/UpgradedVlanProfile">
    <profile-name>UpgradedVlanProfile</profile-name>
  </port-profile>
</port-profile-domain>
```

The following is an example of the DELETE operation to remove a port-profile name from the port-profile domain.

#### URI

```
http://host:80/rest/config/running/port-profile-domain/default/port-profile/UpgradedProfile
```

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## preprovision

Configures, modifies, or retrieves preprovision profiles.

### Resource URIs

URI	Description
<base_URI>/config/running/preprovision	Preprovision profiles
<base_URI>/config/running/preprovision/rbridge-id	RBridge-id for preprovision configuration

### Parameters

Name	Description
<i>rbridge-id</i>	Rbridge ID for preprovision configuration
<i>wwn</i>	World Wide Name

### Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/preprovision
```

#### Request body

None

#### Response body

```
<preprovision xmlns="urn:brocade.com:mgmt:brocade-preprovision"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/preprovision">
  <rbridge-id y:self="/rest/config/running/preprovision/rbridge-id/3">
    <rbridge-id>3</rbridge-id>
    <wwn>11:11:11:11:11:11:11:15</wwn>
  </rbridge-id>
</preprovision>
```

The following is an example of the POST operation to configure the WWN.

#### URI

```
http://host:80/rest/config/running/preprovision
```

#### Request body

```
<rbridge-id>
  <rbridge-id>4</rbridge-id>
  <wwn>11:11:11:11:11:11:11:18</wwn>
</rbridge-id>
```

**Response body**

None

The following is an example of the DELETE operation to remove the WWN from preprovision configuration.

**URI**

`http://host:80/rest/config/running/preprovision/rbridge-id/3/wwn`

**Request body**

None

**Response body**

None

***History***

---

Release version	History
6.0.0	The API call was introduced.

---

## protocol

Configures, modifies, or retrieves protocol configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/protocol	Protocol configuration
<base_URI>/config/running/protocol/cdp	Cisco Discovery Protocol (CDP). Refer to <a href="#">protocol/cdp</a> for information
<base_URI>/config/running/protocol/edge-loop-detection	ELD parameters. Refer to <a href="#">protocol/edge-loop-detection</a> for information
<base_URI>/config/running/protocol/lldp	Link Layer Discovery Protocol (LLDP). Refer to <a href="#">protocol/lldp</a> for information
<base_URI>/config/running/protocol/spanning-tree	Spanning tree commands. Refer to <a href="#">protocol/spanning-tree</a> for information
<base_URI>/config/running/protocol/udld	Unidirectional Link Detection protocol. Refer to <a href="#">protocol/udld</a> for information

### Parameters

Name	Description
<i>cdp</i>	Configures Cisco Discovery Protocol
<i>edge-loop-detection</i>	Configures ELD parameters
<i>lldp</i>	Configures Link Layer Discovery Protocol
<i>spanning-tree</i>	Configures Spanning tree
<i>udld</i>	Configures Unidirectional Direction Protocol

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/protocol
```

#### Request body

None

#### Response body

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/protocol">
```

```
<udld xmlns="urn:brocade.com:mgmt:brocade-udld"
y:self="/rest/config/running/protocol/udld"/>
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp"
y:self="/rest/config/running/protocol/spanning-tree"/>
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp"
y:self="/rest/config/running/protocol/lldp"/>
      <cdp xmlns="urn:brocade.com:mgmt:brocade-cdp"
y:self="/rest/config/running/protocol/cdp"/>
        <edge-loop-detection xmlns="urn:brocade.com:mgmt:brocade-eld"
y:self="/rest/config/running/protocol/edge-loop-detection"/>
      </protocol>
```

### *History*

Release version	History
5.0.0	The API call was introduced.

## protocol/cdp

Configures, modifies, or retrieves Cisco Discovery Protocol (CDP) configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/protocol	Protocol configuration
<base_URI>/config/running/protocol/cdp	Cisco Discovery Protocol (CDP)

### Parameters

Name	Description
cdp	Cisco Discovery Protocol (CDP)

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/protocol/cdp
```

#### Request body

None

#### Response body

```
<cdp xmlns="urn:brocade.com:mgmt:brocade-cdp"
y:self="/rest/config/running/protocol/cdp"/>
```

### History

Release version	History
5.0.0	The API call was introduced.



## protocol/edge-loop-detection

Configures, modifies, or retrieves edge loop detection configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/protocol	Protocol configuration
<base_URI>/config/running/protocol/edge-loop-detection	ELD parameters

### Parameters

Name	Description
<i>shutdown-time</i>	Sets shutdown time limit
<i>hello-interval</i>	Sets hello interval time
<i>pdu-rx-limit</i>	Sets pdu-rx-limit
<i>mac-refresh-time</i>	Refresh time for MAC address
<i>mac-refresh-type</i>	The dynamic MAC cleaning type <ul style="list-style-type: none"> <li>all - Clean dynamic MAC addresses for entire cluster</li> <li>port - Clean dynamic MAC addresses for partner port at the other end of the loop</li> </ul>

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/protocol/edge-loop-detection
```

#### Request body

None

#### Response body

```
<edge-loop-detection xmlns="urn:brocade.com:mgmt:brocade-eld"
y:self="/rest/config/running/protocol/edge-loop-detection">
  <pdu-rx-limit>2</pdu-rx-limit>
  <hello-interval>2200</hello-interval>
  <shutdown-time>20</shutdown-time>
  <mac-refresh
y:self="/rest/config/running/protocol/edge-loop-detection/mac-refresh">
    <mac-refresh-time>112</mac-refresh-time>
    <mac-refresh-type>all</mac-refresh-type>
  </mac-refresh>
</edge-loop-detection>
```

## 4 Configuration APIs

The following is an example of the DELETE operation to remove the shutdown time from the edge-loop-detection configuration.

### URI

`http://host:80/rest/config/running/protocol/edge-loop-detection/shutdown-time/20`

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## protocol/lldp

Configures, modifies, or retrieves Link Layer Discovery Protocol (LLDP) configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/protocol	Protocol configuration
<base_URI>/config/running/protocol/lldp	Link Layer Discovery Protocol (LLDP)

### Parameters

Name	Description
<i>lldp</i>	Link Layer Discovery Protocol (LLDP)
<i>mode</i>	LLDP configuration mode <ul style="list-style-type: none"> <li>rx</li> <li>tx</li> </ul>
<i>description</i>	The User description
<i>advertise</i>	The Advertise TLV configuration <ul style="list-style-type: none"> <li>dcbx-fcoe-app-tlv</li> <li>dcbx-fcoe-logical-link-tlv</li> <li>dcbx-iscsi-app-tlv</li> <li>dcbx-tlv</li> <li>dot1-tlv</li> <li>dot3-tlv</li> <li>optional-tlv</li> </ul>
<i>system-name</i>	The system name
<i>system-description</i>	The system description
<i>iscsi-priority</i>	Configure the Ethernet priority to advertise iscsi
<i>profile-name</i>	The name of the profile
<i>pdu-rx-limit</i>	Sets pdu-rx-limit
<i>dot1-tlv</i>	IEEE 802.1 Organizationally Specific TLV (applicable for advertise)
<i>dot3-tlv</i>	IEEE 802.3 Organizationally Specific TLV (applicable for advertise)
<i>optional-tlv</i>	The Optional TLVs (applicable for advertise)
<i>description</i>	The user description
<i>rx</i>	LLDP Receive Only Mode (applicable for mode)
<i>tx</i>	LLDP Transmit Only Mode (applicable for mode)
<i>profile</i>	The LLDP profile name

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

http://host:80/rest/config/running/protocol/lldp

#### Request body

None

#### Response body

```

<lldp xmlns="urn:brocade.com:mgmt:brocade-lldp"
y:self="/rest/config/running/protocol/lldp">
  <description>dcbxfcoe1</description>
  <hello>5</hello>
  <mode>rx</mode>
  <multiplier>2</multiplier>
  <advertise y:self="/rest/config/running/protocol/lldp/advertise">
    <dcbx-fcoe-app-tlv>true</dcbx-fcoe-app-tlv>
    <dcbx-fcoe-logical-link-tlv>true</dcbx-fcoe-logical-link-tlv>
    <dcbx-tlv>true</dcbx-tlv>
    <optional-tlv
y:self="/rest/config/running/protocol/lldp/advertise/optional-tlv">
      <system-name>true</system-name>
    </optional-tlv>
  </advertise>
  <system-name>client3</system-name>
  <system-description>client2</system-description>
  <iscsi-priority>2</iscsi-priority>
  <disable>true</disable>
  <profile y:self="/rest/config/running/protocol/lldp/profile/profile1">
    <profile-name>profile1</profile-name>
    <description>dot1user</description>
    <advertise
y:self="/rest/config/running/protocol/lldp/profile/profile1/advertise">
      <dot1-tlv>true</dot1-tlv>
    </advertise>
  </profile>
  <profile y:self="/rest/config/running/protocol/lldp/profile/profile2">
    <profile-name>profile2</profile-name>
    <advertise
y:self="/rest/config/running/protocol/lldp/profile/profile2/advertise">
      <optional-tlv
y:self="/rest/config/running/protocol/lldp/profile/profile2/advertise/optional-tlv"/>
    </advertise>
  </profile>
</lldp>

```

### *History*

Release version	History
5.0.0	The API call was introduced.

## protocol/spanning-tree

Configures, modifies, or retrieves spanning tree configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/protocol	Protocol configuration
<base_URI>/config/running/protocol/spanning-tree	Spanning tree commands

### Parameters

Name	Description
<i>spanning-tree</i>	Displays the protocol configuration information for MSTP
<i>stp</i>	Specifies Rapid Per-VLAN Spanning Tree Protocol Plus
<i>description</i>	Displays the spanning tree description
<i>bridge-priority</i>	Displays the Bridge priority commands
<i>error-disable-timeout</i>	Displays the Error-disable-timeout for the spanning tree
<i>interval</i>	The error disable timeout interval
<i>forward-delay</i>	Displays the forward delay for the spanning tree
<i>max-age</i>	Displays the maximum age for the spanning tree
<i>max-hops</i>	Displays the MST maximum hop count
<i>port-channel</i>	Displays the status of port-channel for spanning-tree
<i>path-cost</i>	Sets the path-cost behaviour
<i>shutdown</i>	Turn off the Spanning Tree Protocol
<i>hello-time</i>	Displays the hello time settings

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/protocol/spanning-tree
```

#### Request body

None

#### Response body

```
<spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp"
y:self="/rest/config/running/protocol/spanning-tree">
```

```
<stp y:self="/rest/config/running/protocol/spanning-tree/stp">
  <description>stp2</description>
  <bridge-priority>12288</bridge-priority>
  <error-disable-timeout
y:self="/rest/config/running/protocol/spanning-tree/stp/error-disable-timeout">
  <interval>150</interval>
  </error-disable-timeout>
  <forward-delay>20</forward-delay>
  <max-age>22</max-age>
  <port-channel
y:self="/rest/config/running/protocol/spanning-tree/stp/port-channel">
  <path-cost>custom</path-cost>
  </port-channel>
  <shutdown>true</shutdown>
  <hello-time>3</hello-time>
</stp>
</spanning-tree>
```

## History

Release version	History
5.0.0	The API call was introduced.

## protocol/udld

Configures, modifies, or retrieves Unidirectional Link Detection protocol configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/protocol	Protocol configuration
<base_URI>/config/running/protocol/udld	Unidirectional Link Detection protocol

### Parameters

Name	Description
<i>udld</i>	Enables and/or enters unidirectional link detection (UDLD) protocol configuration mode
<i>hello</i>	The hello transmit interval
<i>multiplier</i>	The timeout multiplier
<i>shutdown</i>	Disable UDLD protocol

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/protocol/udld
```

#### Request body

None

#### Response body

```
<udld xmlns="urn:brocade.com:mgmt:brocade-udld"
y:self="/rest/config/running/protocol/udld">
  <hello>25</hello>
  <multiplier>6</multiplier>
  <shutdown>true</shutdown>
</udld>
```

The following is an example of the POST operation to configure the UDLD.

#### URI

```
http://host:80/rest/config/running/protocol
```

#### Request body

```
<udld>
  <hello>25</hello>
```



</uclid>

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## qos

Configures, modifies, or retrieves Quality of Service (QoS).

### Resource URIs

URI	Description
<base_URI>/config/running/qos	Quality of Service (QoS)

### Parameters

Name	Description
<i>dscp-mutation-map-name</i>	DSCP-to-DSCP mutation map name
<i>dscp-in-values</i>	Incoming DSCP
<i>to</i>	DSCP Mutation Out or DSCP Traffic Class value or CoS Mutation out
<i>dscp-traffic-class-map-name</i>	DSCP traffic class map name
<i>dscp-in-values</i>	Incoming DSCP
<i>dscp-cos-map-name</i>	DSCP-to-CoS mutation map name
<i>dscp-in-values</i>	Incoming DSCP
<i>name</i>	Name of the map
<i>cos</i>	CoS mutated CoS value
<i>profile-id</i>	Profile ID
<i>min-threshold</i>	Minimum Threshold in Percentage
<i>max-threshold</i>	Maximum Threshold in Percentage
<i>drop-probability</i>	Drop Probability in Percentage
<i>priority-number</i>	Sets priority: <ul style="list-style-type: none"> <li>• 0 - No strict priority queue</li> <li>• 1 - Traffic Class 7 strict priority queue</li> <li>• 2 - Traffic Class 6 through 7 strict priority queues</li> <li>• 3 - Traffic Class 5 through 7 strict priority queues</li> <li>• 4 - Traffic Class 4 through 7 strict priority queues</li> <li>• 5 - Traffic Class 3 through 7 strict priority queues</li> <li>• 6 - Traffic Class 2 through 7 strict priority queues</li> <li>• 7 - Traffic Class 1 through 7 strict priority queues</li> </ul>
<i>traffic-class</i>	Traffic class tail drop threshold (packets)
<i>limit</i>	Rate limit (packets per second)
<i>burst</i>	Burst limit (packets)
<i>direction</i>	in - Input policy
<i>policy-map-name</i>	QoS Policy map name
<i>add</i>	Add RBridge-ID
<i>remove</i>	Remove RBridge-ID

## Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

## Examples

The following is an example of the GET operation to retrieve the configuration details.

### URI

```
http://host:80/rest/config/running/qos
```

### Request body

None

### Response body

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/qos">
  <map y:self="/rest/config/running/qos/map">
    <dscp-mutation y:self="/rest/config/running/qos/map/dscp-mutation/map4">
      <dscp-mutation-map-name>map4</dscp-mutation-map-name>
      <mark y:self="/rest/config/running/qos/map/dscp-mutation/map4/mark/4">
        <dscp-in-values>4</dscp-in-values>
        <to>3</to>
      </mark>
    </dscp-mutation>
    <dscp-traffic-class
y:self="/rest/config/running/qos/map/dscp-traffic-class/map5">
      <dscp-traffic-class-map-name>map5</dscp-traffic-class-map-name>
      <mark
y:self="/rest/config/running/qos/map/dscp-traffic-class/map5/mark/6">
        <dscp-in-values>6</dscp-in-values>
        <to>5</to>
      </mark>
    </dscp-traffic-class>
    <dscp-cos y:self="/rest/config/running/qos/map/dscp-cos/map3">
      <dscp-cos-map-name>map3</dscp-cos-map-name>
      <mark y:self="/rest/config/running/qos/map/dscp-cos/map3/mark/2">
        <dscp-in-values>2</dscp-in-values>
        <to>1</to>
      </mark>
    </dscp-cos>
    <cos-mutation y:self="/rest/config/running/qos/map/cos-mutation/map1">
      <name>map1</name>
      <cos0>2</cos0>
      <cos1>1</cos1>
      <cos2>2</cos2>
      <cos3>1</cos3>
      <cos4>1</cos4>
      <cos5>1</cos5>
      <cos6>1</cos6>
      <cos7>2</cos7>
    </cos-mutation>
  </map>
  <red-profile y:self="/rest/config/running/qos/red-profile/23">
    <profile-id>23</profile-id>
    <min-threshold>20</min-threshold>
    <max-threshold>50</max-threshold>
```

## 4 Configuration APIs

```
<drop-probability>30</drop-probability>
</red-profile>
<service-policy y:self="/rest/config/running/qos/service-policy">
  <direction>in</direction>
  <policy-map-name>map1</policy-map-name>
  <attach y:self="/rest/config/running/qos/service-policy/attach">
    <rbridge-id
y:self="/rest/config/running/qos/service-policy/attach/rbridge-id">
      <add>121</add>
      <remove>200</remove>
    </rbridge-id>
  </attach>
</service-policy>
</qos>
```

The following is an example of the POST operation to configure a red-profile.

### URI

`http://host:80/rest/config/running/qos/red-profile`

### Request body

```
<profile-id>23</profile-id>
<min-threshold>20</min-threshold>
<max-threshold>50</max-threshold>
<drop-probability>30</drop-probability>
```

### Response body

None

The following is an example of the DELETE operation to remove a red-profile configuration.

### URI

`http://host:80/rest/config/running/qos/red-profile/23`

### Request body

None

### Response body

None

## *History*

Release version	History
5.0.0	The API call was introduced.

## radius-server

Configures, modifies, or retrieves RADIUS server configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/radius-server	RADIUS server

### Parameters

Name	Description
<i>hostname</i>	The IP address or host name of the RADIUS server
<i>auth-port</i>	The User Datagram Protocol (UDP) port used to connect the RADIUS server for authentication
<i>encryption-level</i>	The encryption level for the shared secret key operation
<i>key</i>	The text string that is used as the shared secret between the switch and the RADIUS server. The default is sharedsecret.
<i>protocol</i>	The authentication protocol. Parameters include CHAP, PAP, or PEAP-MSCHAP. The default is CHAP.
<i>retries</i>	The number of attempts allowed to connect to a RADIUS server. The default is 5 attempts.
<i>timeout</i>	The time to wait for the RADIUS server to respond, in seconds. The default is 5 seconds.

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/radius-server
```

#### Request body

None

#### Response body

```
<radius-server xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/radius-server">
  <host y:self="/rest/config/running/radius-server/host/inetaddress">
    <hostname>inetaddress</hostname>
    <auth-port>1815</auth-port>
    <protocol>pap</protocol>
    <key>shardsecret</key>
```

## 4 Configuration APIs

```
<encryption-level>0</encryption-level>
<retries>10</retries>
<timeout>10</timeout>
</host>
</radius-server>
```

The following is an example of the POST operation to add the number of retries to the RADIUS server configuration.

### URI

`http://host:80/rest/config/running/radius-server`

### Request body

```
<host>
  <hostname>inetaddress</hostname>
  <retries>5</retries>
</host>
```

### Response body

None

The following is an example of the DELETE operation to remove the auth-port configuration.

### URI

`http://host:80/rest/config/running/radius-server/host/inetaddress/auth-port/1815`

### Request body

None

### Response body

None

## *History*

Release version	History
5.0.0	The API call was introduced.

## rbridge-id

Configures, modifies, or retrieves RBridge ID for node-specific configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id	RBridge ID for node-specific configuration

### Parameters

Name	Description
<i>rbridge-id</i>	The RBridge ID
<i>ag</i>	All AG-mode related commands. Refer to <a href="#">rbridge-id/{rbridge-number}/ag</a> for information
<i>arp</i>	Address Resolution Protocol (ARP). Refer to <a href="#">rbridge-id/{rbridge-number}/arp</a> for information
<i>chassis</i>	Configure Chassis Virtual address. Refer to <a href="#">rbridge-id/{rbridge-number}/chassis</a> for information
<i>clock</i>	Configure system time zone. Refer to <a href="#">rbridge-id/{rbridge-number}/clock</a> for information
<i>fabric</i>	Allows to configure fabric-related parameters. Refer to <a href="#">rbridge-id/{rbridge-number}/fabric</a> for information
<i>fcoe</i>	FCoE configuration commands. Refer to <a href="#">rbridge-id/{rbridge-number}/fcoe</a> for information
<i>fcsp</i>	FCSP configuration commands. Refer to <a href="#">rbridge-id/{rbridge-number}/fcsp</a> for information
<i>filter-change-update-delay</i>	Change filter change update delay timer. Refer to <a href="#">rbridge-id/{rbridge-number}/filter-change-update-delay</a> for information
<i>hardware-profile</i>	Configure Hardware Profile on a Switch. Refer to <a href="#">rbridge-id/{rbridge-number}/hardware-profile</a> for information
<i>interface</i>	Interface configuration. Refer to <a href="#">rbridge-id/{rbridge-number}/interface</a> for information
<i>ip</i>	Configure Internet Protocol (IP). Refer to <a href="#">rbridge-id/{rbridge-number}/ip</a> for information
<i>ipv6</i>	Configure Internet Protocol version 6 (IPv6). Refer to <a href="#">rbridge-id/{rbridge-number}/ipv6</a> for information
<i>linecard</i>	Config linecard for the specified slot. Refer to <a href="#">rbridge-id/{rbridge-number}/linecard</a> for information
<i>logical-chassis</i>	logical chassis commands. Refer to <a href="#">rbridge-id/{rbridge-number}/logical-chassis</a> for information
<i>protocol</i>	Protocol configuration. Refer to <a href="#">rbridge-id/{rbridge-number}/protocol</a> for information
<i>qos</i>	Configure rbridge-level qos config. Refer to <a href="#">rbridge-id/{rbridge-number}/qos</a> for information

Name	Description
<i>route-map</i>	Configure a route-map instance. Refer to <a href="#">rbridge-id/{rbridge-number}/route-map</a> for information
<i>router</i>	Configure router. Refer to <a href="#">rbridge-id/{rbridge-number}/router</a> for information
<i>secpolicy</i>	Security policy-related configuration. Refer to <a href="#">rbridge-id/{rbridge-number}/secpolicy</a> for information
<i>snmp-server</i>	SNMP server. Refer to <a href="#">rbridge-id/{rbridge-number}/snmp-server</a> for information
<i>ssh</i>	Configure SSH Server. Refer to <a href="#">rbridge-id/{rbridge-number}/ssh</a> for information
<i>switch-attributes</i>	Switch attributes configurations. Refer to <a href="#">rbridge-id/{rbridge-number}/switch-attributes</a> for information
<i>system-monitor</i>	Configure FRU threshold and alert setting. Refer to <a href="#">rbridge-id/{rbridge-number}/system-monitor</a> for information
<i>telnet</i>	Configure Telnet Server. Refer to <a href="#">rbridge-id/{rbridge-number}/telnet</a> for information
<i>threshold-monitor</i>	Configure Class monitoring threshold and alert setting. Refer to <a href="#">rbridge-id/{rbridge-number}/threshold-monitor</a> for information
<i>vrf</i>	VRF configurations. Refer to <a href="#">rbridge-id/{rbridge-number}/vrf</a> for information

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id
```

#### Request body

None

#### Response body

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195">
  <rbridge-id>195</rbridge-id>
  <ip y:self="/rest/config/running/rbridge-id/195/ip"/>
  <switch-attributes
y:self="/rest/config/running/rbridge-id/195/switch-attributes"/>
  <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf"
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf"/>
  <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor"
y:self="/rest/config/running/rbridge-id/195/threshold-monitor"/>
  <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor"
y:self="/rest/config/running/rbridge-id/195/system-monitor"/>
  <snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp"
y:self="/rest/config/running/rbridge-id/195/snmp-server"/>
  <qos xmlns="urn:brocade.com:mgmt:brocade-qos"
y:self="/rest/config/running/rbridge-id/195/qos"/>
```



```

    <linecard xmlns="urn:brocade.com:mgmt:brocade-linecard-management"
y:self="/rest/config/running/rbridge-id/195/linecard"/>
    <protocol xmlns="urn:brocade.com:mgmt:brocade-interface"
y:self="/rest/config/running/rbridge-id/195/protocol"/>
    <hardware-profile xmlns="urn:brocade.com:mgmt:brocade-hardware"
y:self="/rest/config/running/rbridge-id/195/hardware-profile"/>
    <fcsp xmlns="urn:brocade.com:mgmt:brocade-fc-auth"
y:self="/rest/config/running/rbridge-id/195/fcsp"/>
    <secpolicy xmlns="urn:brocade.com:mgmt:brocade-fc-auth"
y:self="/rest/config/running/rbridge-id/195/secpolicy"/>
    <fabric xmlns="urn:brocade.com:mgmt:brocade-fabric-service"
y:self="/rest/config/running/rbridge-id/195/fabric"/>
    <clock xmlns="urn:brocade.com:mgmt:brocade-clock"
y:self="/rest/config/running/rbridge-id/195/clock"/>
    <chassis xmlns="urn:brocade.com:mgmt:brocade-chassis"
y:self="/rest/config/running/rbridge-id/195/chassis">
    <ag xmlns="urn:brocade.com:mgmt:brocade-ag"
y:self="/rest/config/running/rbridge-id/195/ag"/>
    <logical-chassis xmlns="http://brocade.com/ns/brocade-logical-chassis"
y:self="/rest/config/running/rbridge-id/195/logical-chassis"/>
    <telnet xmlns="urn:brocade.com:mgmt:brocade-sec-services"
y:self="/rest/config/running/rbridge-id/195/telnet"/>
    <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services"
y:self="/rest/config/running/rbridge-id/195/ssh"/>
    <http xmlns="urn:brocade.com:mgmt:brocade-http"
y:self="/rest/config/running/rbridge-id/195/http"/>
    <fcoe xmlns="urn:brocade.com:mgmt:brocade-fcoe"
y:self="/rest/config/running/rbridge-id/195/fcoe"/>
    <router y:self="/rest/config/running/rbridge-id/195/router"/>
    <ipv6 y:self="/rest/config/running/rbridge-id/195/ipv6"/>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface"
y:self="/rest/config/running/rbridge-id/195/interface"/>
</rbridge-id>

```

## History

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/ag

Configures, modifies, or retrieves all AG mode-related commands.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ag	All AG mode-related commands
<base_URI>/config/running/rbridge-id/{rbridge-number}/ag/counter	Set reliability counter value
<base_URI>/config/running/rbridge-id/{rbridge-number}/ag/nport	Set N_Port properties
<base_URI>/config/running/rbridge-id/{rbridge-number}/ag/pg	Creates a new port group
<base_URI>/config/running/rbridge-id/{rbridge-number}/ag/timeout	Set fabric name monitoring

### Parameters

Name	Description
<i>enable</i>	Enable AG mode
<i>reliability</i>	Reliability counter value
<i>modes</i>	PG mode
<i>rename</i>	Rename PG mode
<i>fnm</i>	Value for timeout
<i>pgid</i>	PGID
<i>agNPortNb</i>	N_port interface type

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/54/ag
```

#### Request body

None

#### Response body

```
<ag xmlns="urn:brocade.com:mgmt:brocade-ag" xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/ag">
```

```

<enable>true</enable>
<counter y:self="/rest/config/running/rbridge-id/1/ag/counter">
  <reliability>25</reliability>
</counter>
<timeout y:self="/rest/config/running/rbridge-id/1/ag/timeout">
  <fnm>125</fnm>
</timeout>
<nport y:self="/rest/config/running/rbridge-id/1/ag/nport">
  <interface y:self="/rest/config/running/rbridge-id/1/ag/nport/interface">
nport/interface">
  <FiberChannel
y:self="/rest/config/running/rbridge-id/54/ag/nport/interface/FiberChannel/%2254
/0/6%22">
    <agNPortNb>54/0/6</agNPortNb>
    <map
y:self="/rest/config/running/rbridge-id/54/ag/nport/interface/FiberChannel/%2254
/0/6%22/map">
      <fport
y:self="/rest/config/running/rbridge-id/54/ag/nport/interface/FiberChannel/%2254
/0/6%22/map/fport">
        <interface
y:self="/rest/config/running/rbridge-id/54/ag/nport/interface/FiberChannel/%2254
/0/6%22/map/fport/interface"/>
          </fport>
        </map>
      </FiberChannel>
    </interface>
  </nport>
  <pg y:self="/rest/config/running/rbridge-id/1/ag/pg/2">
    <pgid>2</pgid>
    <nport y:self="/rest/config/running/rbridge-id/1/ag/pg/2/nport">
      <interface
y:self="/rest/config/running/rbridge-id/54/ag/pg/0/nport/interface">
        <FibreChannel>54/0/6</FibreChannel>
      </interface>
    </nport>
    <modes>lb</modes>
    <rename>pg1</rename>
  </pg>
</ag>

```

## History

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the parameter <i>enable</i> .

## rbridge-id/{rbridge-number}/arp

Configures, modifies, or retrieves Address Resolution Protocol (ARP).

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/arp	Address Resolution Protocol (ARP)

### Parameters

Name	Description
arp-ip-address	IP address of the ARP entry
mac-address-value	MAC address
interfacename	Interface to use
FortyGigabitEthernet	Interface name

### Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/arp
```

#### Request body

None

#### Response body

```
<arp xmlns="urn:brocade.com:mgmt:brocade-arp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/arp/10.24.25.26">
  <arp-ip-address>10.24.25.26</arp-ip-address>
  <mac-address-value>0000.2222.2233</mac-address-value>
  <interfacename>interface</interfacename>
  <FortyGigabitEthernet>195/2/5</FortyGigabitEthernet>
</arp>
```

The following is an example of the DELETE operation to remove the arp configuration.

#### URI

```
http://host:80/rest/config/running/rbridge-id/1/arp
```

#### Request body

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/bp-rate-limit

Configures, modifies, or retrieves BP Rate Limit mode.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/bp-rate-limit	BP Rate Limit mode
<base_URI>/config/running/rbridge-id/{rbridge-number}/bp-rate-limit/heavy	Configures BP Rtae limit under heavy load

### Parameters

Name	Description
module	BP rate limit under heavy load

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

http://host:80/rest/config/running/rbridge-id/1/bp-rate-limit

#### Request body

None

#### Response body

```
<bp-rate-limit xmlns="urn:brocade.com:mgmt:brocade-bprate-limit"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/bp-rate-limit">
  <heavy y:self="/rest/config/running/rbridge-id/1/bp-rate-limit/heavy">
    <module>0</module>
  </heavy>
</bp-rate-limit>
```

### History

Release version	History
6.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/chassis

Configures, modifies, or retrieves the Chassis Virtual address.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/chassis	Chassis Virtual address

### Parameters

Name	Description
virtual-ip	Chassis Virtual IPv4 address
virtual-ipv6	Chassis Virtual IPv6 address

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/chassis
```

#### Request body

None

#### Response body

```
<chassis xmlns="urn:brocade.com:mgmt:brocade-chassis"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/chassis">
  <virtual-ip>10.24.81.195/20</virtual-ip>
  <virtual-ipv6>2001:2017:111:1::/64</virtual-ipv6>
</chassis>
```

### History

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/clock

Configures, modifies, or retrieves system time zone.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/clock	Configure system time zone

### Parameters

Name	Description
timezone	Time zone region or city

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

http://host:80/rest/config/running/rbridge-id/195/clock

#### Request body

None

#### Response body

```
<clock xmlns="urn:brocade.com:mgmt:brocade-clock"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/clock">
  <timezone>Etc/GMT</timezone>
</clock>
```

### History

Release version	History
5.0.0	The API call was introduced.



## rbridge-id/{rbridge-number}/crypto

Configures, modifies, or retrieves Crypto services.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/crypto	Configure crypto services
<base_URI>/config/running/rbridge-id/{rbridge-number}/crypto/ca	Configure trustpoint CA
<base_URI>/config/running/rbridge-id/{rbridge-number}/crypto/key	Configure keypair

### Parameters

Name	Description
<i>label</i>	Key label
<i>type</i>	Key type
<i>modulus</i>	Key size
<i>trustpoint</i>	Trustpoint name
<i>keypair</i>	Key pair association

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/crypto
```

#### Request body

None

#### Response body

```
<crypto xmlns="urn:brocade.com:mgmt:brocade-crypto"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/crypto">
  <key y:self="/rest/config/running/rbridge-id/195/crypto/key/key_label">
    <label>key_label</label>
    <type>rsa</type>
    <modulus>2048</modulus>
  </key>
  <ca y:self="/rest/config/running/rbridge-id/195/crypto/ca/trust1">
    <trustpoint>trust1</trustpoint>
```

## 4 Configuration APIs

```
<keypair>key_label</keypair>  
</ca>  
</crypto>
```

### *History*

Release version	History
6.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/default-config

Configures, modifies, retrieves the default configuration mode.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/default-config	Configures default configuration mode

### Parameters

Name	Description
enable	Enable default-config mode

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/default-config
```

#### Request body

None

#### Response body

```
<default-config xmlns="http://brocade.com/ns/brocade-default-config"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/default-config">
  <enable>true</enable>
</default-config>
```

### History

Release version	History
6.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/fabric

Configures, modifies, or retrieves fabric-related parameters.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/fabric	Allows configuration of fabric-related parameters
<base_URI>/config/running/rbridge-id/{rbridge-number}/fabric/ecmp	Configure ECMP parameters
<base_URI>/config/running/rbridge-id/{rbridge-number}/fabric/login-policy	Configure switch login parameters in a fabric
<base_URI>/config/running/rbridge-id/{rbridge-number}/fabric/port-channel	VLAG load balancing
<base_URI>/config/running/rbridge-id/{rbridge-number}/fabric/route	Configure routing related parameters

### Parameters

Name	Description
<i>load-balance</i>	Load balancing parameters <ul style="list-style-type: none"> <li>• <i>dst-mac-vid</i> - Destination MAC address and VID-based load balancing</li> <li>• <i>src-dst-ip</i> - Source and Destination IP address-based load balancing</li> <li>• <i>src-dst-ip-mac-vid</i> - Source and Destination IP and MAC address and VID-based load balancing</li> <li>• <i>src-dst-ip-mac-vid-port</i> - Source and Destination IP, MAC address, VID and TCP/UDP port-based load balancing (default)</li> <li>• <i>src-dst-ip-port</i> - Source and Destination IP and TCP/UDP port-based load balancing</li> <li>• <i>src-dst-mac-vid</i> - Source and Destination MAC address and VID-based load balancing</li> <li>• <i>src-mac-vid</i> - Source MAC address and VID-based load balancing</li> </ul>
<i>load-balance-hash-swap</i>	Hash-Swap value
<i>priority</i>	Priority (default 1)
<i>po-id</i>	Port-channel interface number
<i>duplicateWWN</i>	DuplicateWWN login policy of a switch in Fabric

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/fabric
```

**Request body**

None

**Response body**

```
<fabric xmlns="urn:brocade.com:mgmt:brocade-fabric-service"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/fabric">
  <ecmp y:self="/rest/config/running/rbridge-id/195/fabric/ecmp">
    <load-balance-hash-swap>500</load-balance-hash-swap>
    <load-balance>dst-mac-vid</load-balance>
  </ecmp>
  <login-policy y:self="/rest/config/running/rbridge-id/1/fabric/login-policy">
    <duplicateWWN>new-login</duplicateWWN>
  </login-policy>
  <route y:self="/rest/config/running/rbridge-id/195/fabric/route">
    <mcast y:self="/rest/config/running/rbridge-id/195/fabric/route/mcast">
      <priority>2</priority>
    </mcast>
  </route>
  <port-channel
y:self="/rest/config/running/rbridge-id/195/fabric/port-channel/600">
    <po-id>600</po-id>
    <load-balance>src-dst-ip</load-balance>
  </port-channel>
</fabric>
```

The following is an example of the PUT operation to add routing related parameters.

**URI**

```
http://host:80/rest/config/running/rbridge-id/1/fabric/route/mcast
```

**Request body**

```
<mcast>
  <priority>2</priority>
</mcast>
```

**Response body**

None

The following is an example of the DELETE operation to remove ecmp configuration.

**URI**

```
http://host:80/rest/config/running/rbridge-id/1/fabric/ecmp
```

**Request body**

None

**Response body**

None

### *History*

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the new URI <base_URI>/config/running/rbridge-id/{rbridge-number}/fabric/login-policy.

## rbridge-id/{rbridge-number}/fcoe

Configures, modifies, or retrieves FCoE configuration commands.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/fcoe	FCoE configuration commands

### Parameters

Name	Description
fcoe-enodes	The number of FCoE ENodes that are to be created on a switch

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/fcoe
```

#### Request body

None

#### Response body

```
<fcoe xmlns="urn:brocade.com:mgmt:brocade-fcoe"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/fcoe">
  <fcoe-enodes>0</fcoe-enodes>
</fcoe>
```

### History

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/fcsp

Configures, modifies, or retrieves FCSP configuration commands.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/fcsp	FCSP configuration commands
<base_URI>/config/running/rbridge-id/{rbridge-number}/fcsp/auth	Authentication type configuration
<base_URI>/config/running/rbridge-id/{rbridge-number}/fcsp/auth/policy	Policy to be enabled

### Parameters

Name	Description
group	Specifies the DH group value. This parameter sets the strength of the secret
hash	Specifies the hash type used for authentication
switch	Configures the switch authentication policy attribute

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

http://host:80/rest/config/running/rbridge-id/54/fcsp

#### Request body

None

#### Response body

```
<fcsp xmlns="urn:brocade.com:mgmt:brocade-fc-auth"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/54/fcsp">
  <auth y:self="/rest/config/running/rbridge-id/54/fcsp/auth">
    <group>1</group>
    <hash>sha1</hash>
    <policy y:self="/rest/config/running/rbridge-id/54/fcsp/auth/policy">
      <switch>on</switch>
    </policy>
  </auth>
</fcsp>
```

The following is an example of the PUT operation to enable the policy.



**URI**

`http://host:80/rest/config/running/rbridge-id/1/fcsp/auth/policy`

**Request body**

```
<policy>
  <switch>on</switch>
</policy>
```

**Response body**

None

The following is an example of the DELETE operation to remove the group value.

**URI**

`http://host:80/rest/config/running/rbridge-id/1/fcsp/auth/group`

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/filter-change-update-delay

Configures, modifies, or retrieves filter change update delay timer.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/filter-change-update-delay	Change filter change update delay timer

### Parameters

Name	Description
filter-delay-value	Delay time (default-10 secs, 0-disable)

### Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

http://host:80/rest/config/running/rbridge-id/195/filter-change-update-delay

#### Request body

None

#### Response body

```
<filter-change-update-delay xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/filter-change-update-delay/15">
  <filter-delay-value>15</filter-delay-value>
</filter-change-update-delay>
```

The following is an example of the DELETE operation to the filter delay value.

#### URI

http://host:80/rest/config/running/rbridge-id/1/filter-change-update-delay

#### Request body

None

#### Response body

None

## *History*

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/hardware-profile

Configures, modifies, or retrieves a hardware profile on a switch.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/hardware-profile	Configure hardware profile on a switch
<base_URI>/config/running/rbridge-id/{rbridge-number}/hardware-profile/kap	KAP profile type
<base_URI>/config/running/rbridge-id/{rbridge-number}/hardware-profile/route-table	Route table profile type
<base_URI>/config/running/rbridge-id/{rbridge-number}/hardware-profile/tcam	TCAM profile type
<base_URI>/config/running/rbridge-id/{rbridge-number}/hardware-profile/vlan-classification	VLAN profile type

### Parameters

Name	Description
<i>routing_profiletype</i>	Route table profile type <ul style="list-style-type: none"> <li>• default - IPv4-IPv6 dual-stack applications</li> <li>• ipv4-max-arp - IPv4 routing with maximum ARP</li> <li>• ipv4-max-route - IPv4 maximum routes</li> <li>• ipv4-min-v6 - dual-stack optimized for IPv4 routes</li> <li>• ipv6-max-nd - IPv6 routing with maximum ND</li> <li>• ipv6-max-route - IPv6 maximum routes</li> </ul>
<i>TCAM profile type</i>	TCAM profile type <ul style="list-style-type: none"> <li>• default - basic support for all applications</li> <li>• ipv4-v6-mcast - optimized for multicast</li> <li>• ipv4-v6-pbr - optimized for IPv4 and IPv6 ACL, PBR</li> <li>• ipv4-v6-qos - optimized for IPv4 and IPv6 ACL, QoS</li> <li>• l2-acl-qos - optimized for L2 ACL, QoS</li> <li>• l2-ipv4-acl - optimized for L2 and IPv4 ACL</li> </ul>
<i>routing_profiletype</i>	Routing profile type <ul style="list-style-type: none"> <li>• default - IPv4-IPv6 dual-stack applications</li> <li>• ipv4-max-arp - IPv4 routing with maximum ARP</li> <li>• ipv4-max-route - IPv4 maximum routes</li> <li>• ipv4-min-v6 - dual-stack optimized for IPv4 routes</li> <li>• ipv6-max-nd - IPv6 routing with maximum ND</li> <li>• ipv6-max-route - IPv6 maximum routes</li> <li>• openflow-default - IPv4-IPv6 dual-stack applications and openflow</li> <li>• openflow-ipv4-max-arp - IPv4 routing with maximum ARP and openflow</li> <li>• openflow-ipv4-max-route - IPv4 maximum routes and openflow</li> <li>• openflow-ipv4-min-v6 - dual-stack optimized for IPv4 routes and openflow</li> <li>• openflow-ipv6-max-nd - IPv6 routing with maximum ND and openflow</li> <li>• openflow-ipv6-max-route - IPv6 maximum routes and openflow</li> </ul>

Name	Description
<code>maximum_paths</code>	Maximum number of load sharing paths
<code>kap_profiletype</code>	KAP profile type
<code>kap_profilename</code>	KAP profile name
<code>vlan_profiletype</code>	VLAN profile type <ul style="list-style-type: none"> <li>• default - Optimizes resources with basic support for all applications</li> <li>• tor-virtualfabric - Optimizes top-of-rack resources for Virtual Fabrics</li> <li>• tor-vxlan-gw - Optimizes top-of-rack resources for VXLAN gateways</li> <li>• aggregator-basic - Optimizes basic resources for aggregators for all applications</li> <li>• aggregator-virtualfabric - Optimizes resources for Virtual Fabric aggregators</li> <li>• aggregator-vxlan-gw - Optimizes resources for VXLAN gateway aggregators</li> </ul>

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/hardware-profile
```

#### Request body

None

#### Response body

```
<hardware-profile xmlns="urn:brocade.com:mgmt:brocade-hardware"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/hardware-profile">
  <tcam y:self="/rest/config/running/rbridge-id/195/hardware-profile/tcam">
    <tcam_profiletype>ipv4-v6-mcast</tcam_profiletype>
  </tcam>
  <route-table
y:self="/rest/config/running/rbridge-id/1/hardware-profile/route-table">
    <routing_profiletype>default</routing_profiletype>
    <maximum_paths>16</maximum_paths>
  </route-table>
  <kap y:self="/rest/config/running/rbridge-id/1/hardware-profile/kap">
    <kap_profiletype>default</kap_profiletype>
    <custom-profile
y:self="/rest/config/running/rbridge-id/1/hardware-profile/kap/custom-profile">
      <kap_profilename>kap1</kap_profilename>
    </custom-profile>
  </kap>
  <vlan-classification
y:self="/rest/config/running/rbridge-id/195/hardware-profile/vlan-classification">
    <vlan_profiletype>aggregator-basic</vlan_profiletype>
  </vlan-classification>
</hardware-profile>
```

### *History*

Release version	History
5.0.0	The API call was introduced.
6.0.0	The API call was modified to include the parameter <i>vlan_profiletype</i> .
6.0.1	The API call was modified to include the new URI <base_URI>/config/running/rbridge-id/{rbridge-number}/hardware-profile/kap.

## rbridge-id/{rbridge-number}/interface

Configures, modifies, or retrieves interface configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface	Interface configuration
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/loopback	Interface loopback port
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/loopback/{loopback-number}/vrf	Assign VRF to this ethernet interface
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/loopback/{loopback-number}/ipv6	Assign IPv6 to this ethernet interface
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/loopback/{loopback-number}/ip	Assign IP to this ethernet interface
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/ve	Interface VE number
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/ve/{ve-number}/ip	Assign IP to this ethernet interface
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/ve/{ve-number}/ipv6	Assign IPv6 to this ethernet interface
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/ve/{ve-number}/vrf	Assign VRF to this ethernet interface
<base_URI>/config/running/rbridge-id/{rbridge-number}/interface/ve/{ve-number}/vrrp-extended-group/arp	Configures ARP unicast receive

### Parameters

Name	Description
<i>id</i>	Loopback port number
<i>shutdown</i>	Enable shutdown
<i>forwarding</i>	Creates and enters Virtual Routing and Forwarding (VRF) configuration mode
<i>name</i>	VE interface number
<i>address</i>	IP address of the DHCP server
<i>use-vrf</i>	VRF name
<i>mtu</i>	IP MTU in bytes
<i>directed-broadcast</i>	Enable directed IP broadcasts forwarding
<i>proxy-arp</i>	Enable Proxy-ARP on the interface
<i>arp-aging-timeout</i>	Set ARP age timeout value to interface
<i>last-member-query-interval</i>	Last Member Query Interval value
<i>query-interval</i>	Query Interval value

## 4 Configuration APIs

Name	Description
<i>immediate-leave</i>	Immediate Leave Processing
<i>managed-config-flag</i>	Set managed config flag in router advertisement
<i>other-config-flag</i>	Set other config flag in router advertisement
<i>ra-lifetime</i>	Set router lifetime in router advertisement
<i>reachable-time</i>	The duration node is considered reachable, Sent in RA messages
<i>retrans-timer</i>	RA retransmission timer, Sent in RA messages
<i>hoplimit</i>	Hop Limit to be advertised in RA
<i>ns-interval</i>	Interval between Neighbor solicitations
<i>proxy</i>	Enable proxy flag
<i>max-interval</i>	Maximum interval in seconds
<i>min</i>	Minimum interval between sending RA messages
<i>attempts</i>	Number of Neighbor solicitations to send as part of duplicate address detection
<i>time</i>	Retransmit time interval for Neighbor solicitations, sent as part of duplicate address detection
<i>expire</i>	Time interval after which the cache is deleted or refreshed
<i>receive</i>	Receives unicast ARP requests
<i>shutdown</i>	Shut down the selected interface
<i>use-v2-checksum</i>	Enables v2 checksum computation method for VRRP

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/54/interface
```

#### Request body

None

#### Response body

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/54/interface">
  <Loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10">
    <id>10</id>
    <shutdown>true</shutdown>
    <vrf xmlns="urn:brocade.com:mgmt:brocade-interface"
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/vrf">
      <forwarding>vrf1</forwarding>
```



```

    </vrf>
    <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config"
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ipv6">
      <address
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ipv6/address"/>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3"
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ipv6/ospf">
          <authentication
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ipv6/ospf/authen
tication">
            <ipsec
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ipv6/ospf/authen
tication/ipsec"/>
              </authentication>
            </ospf>
          </ipv6>
          <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config"
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ip">
            <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf"
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ip/ospf">
              <authentication-key
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ip/ospf/authent
ication-key"/>
                <md5-authentication
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ip/ospf/md5-aut
hentication">
                  <key-id
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ip/ospf/md5-aut
hentication/key-id"/>
                    </md5-authentication>
                  <database-filter
y:self="/rest/config/running/rbridge-id/54/interface/Loopback/10/ip/ospf/databas
e-filter"/>
                    </ospf>
                  </ip>
                </Loopback>
              <Ve xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1">
                <name>1</name>
                <ip xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip">
                  <policy
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/policy">
                    <route-map
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/policy/route-map"/>
                      </policy>
                    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/ospf">
                      <authentication-key
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/ospf/authentication
-key"/>
                        <md5-authentication
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/ospf/md5-authentica
tion">
                          <key-id
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/ospf/md5-authentica
tion/key-id"/>
                            </md5-authentication>
                        </ospf>
                      </ip>
                    </Ve>
                  </ip>
                </Loopback>
              </ospf>
            </ip>
          </interface>
        </rbridge-id>
      </config>
    </rest>
  </xml>

```

## 4 Configuration APIs

```
        <database-filter
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/ospf/database-filte
r"/>
        </ospf>
        <icmp xmlns="urn:brocade.com:mgmt:brocade-icmp"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/icmp"/>
        <dhcp xmlns="urn:brocade.com:mgmt:brocade-dhcp"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/dhcp">
        <relay
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/dhcp/relay">
        <servers
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/dhcp/relay/servers/
1.1.1.1%2Cmgmt-vrf">
        <address>1.1.1.1</address>
        <use-vrf>mgmt-vrf</use-vrf>
        </servers>
        <gateway>1.1.1.1</gateway>
        </relay>
        </dhcp>
        <mtu xmlns="urn:brocade.com:mgmt:brocade-ip-config">1600</mtu>
        <directed-broadcast
xmlns="urn:brocade.com:mgmt:brocade-ip-config">true</directed-broadcast>
        <proxy-arp xmlns="urn:brocade.com:mgmt:brocade-ip-config">true</proxy-arp>
        <arp-aging-timeout
xmlns="urn:brocade.com:mgmt:brocade-ip-config">10</arp-aging-timeout>
        <pim xmlns="urn:brocade.com:mgmt:brocade-pim"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/pim"/>
        <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ip/igmp">
        <last-member-query-interval>1100</last-member-query-interval>
        <query-interval>130</query-interval>
        <immediate-leave>true</immediate-leave>
        </igmp>
        </ip>
        <vrf y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/vrf"/>
        <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6">
        <vrrp-suppress-interface-ra
xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">true</vrrp-suppress-interface-ra
>
        <nd xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/nd">
        <managed-config-flag>true</managed-config-flag>
        <other-config-flag>true</other-config-flag>
        <ra-lifetime>1850</ra-lifetime>
        <reachable-time>1</reachable-time>
        <mtu>1600</mtu>
        <retrans-timer>1</retrans-timer>
        <hoplimit>66</hoplimit>
        <ns-interval>2</ns-interval>
        <proxy>true</proxy>
        <suppress-ra
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/nd/suppress-ra">
        <mtu>true</mtu>
        <all>true</all>
        </suppress-ra>
        <ra-interval
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/nd/ra-interval">
        <max-interval>700</max-interval>
        <min>250</min>
```

```

        </ra-interval>
        <dad
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/nd/dad">
        <attempts>3</attempts>
        <time>2</time>
        </dad>
        <cache
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/nd/cache">
        <expire>145</expire>
        </cache>
        </nd>
        <policy xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/policy">
        <route-map
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/policy/route-map"
/>
        </policy>
        <dhcp xmlns="urn:brocade.com:mgmt:brocade-dhcpv6"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/dhcp">
        <relay
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/dhcp/relay"/>
        </dhcp>
        <address xmlns="urn:brocade.com:mgmt:brocade-ipv6-config"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/address"/>
        <mtu xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">1300</mtu>
        <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3"
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/ospf">
        <authentication
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/ospf/authentication">
        <ipsec
y:self="/rest/config/running/rbridge-id/54/interface/Ve/1/ipv6/ospf/authentication/ipsec"/>
        </ipsec>
        </authentication>
        </ospf>
        </ipv6>
        <vrrp-group xmlns="urn:brocade.com:mgmt:brocade-vrrp"
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/vrrp-group/10%2C3">
        <vrid>10</vrid>
        <version>3</version>
        <use-v2-checksum>true</use-v2-checksum>
        <track
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/vrrp-group/10%2C3/track"
/>
        <advertisement-interval>1000</advertisement-interval>
        <preempt-mode>true</preempt-mode>
        </vrrp-group>
        <vrrp-extended-group xmlns="urn:brocade.com:mgmt:brocade-vrrp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/vrrp-extended-group/10"
>
        <vrid>10</vrid>
        <arp
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/vrrp-extended-group/10/arp">
        <unicast-request
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/vrrp-extended-group/10/arp/unicast-request">
        <receive>true</receive>
        </unicast-request>

```

## 4 Configuration APIs

```
    </arp>
  </vrrp-extended-group>
  <shutdown xmlns="urn:brocade.com:mgmt:brocade-ip-config">true</shutdown>
</Ve>
</interface>
```

The following is an example of the PUT operation to add IGMP configurations.

### URI

`http://host:80/rest/config/running/rbridge-id/1/interface/Ve/1/ip/igmp`

### Request body

```
<igmp>
  <last-member-query-interval>1125</last-member-query-interval>
  <query-interval>135</query-interval>
  <immediate-leave>true</immediate-leave>
</igmp>
```

### Response body

None

The following is an example of the DELETE operation to remove IP address from interface Loopback configuration.

### URI

`http://host:80/rest/config/running/rbridge-id/1/interface/Loopback/1/ip/address`

### Request body

None

### Response body

None

## *History*

Release version	History
5.0.0	The API call was introduced.
5.0.1a	The API call was modified to include the parameter <i>vrrp-group</i> .
6.0.1	The API call was modified to include the parameter <i>receive</i> under <i>vrrp-extended-group/arp/unicast-request</i> .

## rbridge-id/{rbridge-id}/interface/ve/{vlan-id}/ip/fabric-virtual-gateway

Configures, modifies, or retrieves the Internet Protocol (IP) Fabric-Virtual-Gateway configuration in RBridge-ID.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-id}/interface/ve/{vlan-id}/ip/fabric-virtual-gateway	Internet Protocol (IP) Fabric-Virtual-Gateway configuration in RBridge-ID

### Parameters

Name	Description
<i>local-ip-gw-id</i>	Gateway ID number
<i>interface-type</i>	Supported interface types are: <ul style="list-style-type: none"> <li>• FortyGigabitEthernet</li> <li>• GigabitEthernet</li> <li>• HundredGigabitEthernet</li> <li>• TenGigabitEthernet</li> <li>• Port-Channel</li> </ul>
<i>interface-name</i>	Interface name in [rbridge-id]/slot/port format or Port-channel interface number
<i>priority</i>	Track priority
<i>network-address</i>	IPv4 address/mask
<i>next-hop-address</i>	Next hop address - IP address
<i>enable</i>	Enables Fabric-Virtual-Gateway
<i>disable</i>	Disables Fabric-Virtual-Gateway
<i>threshold-priority</i>	Threshold priority

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the Internet Protocol (IP) Fabric-Virtual-Gateway configuration in RBridge-ID.

#### URI

```
http://host:80/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual-gateway
```

#### Request body

None

### Response body

```
<fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual-gatew
ay/23">
  <local-ip-gw-id>23</local-ip-gw-id>
  <track
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual-gatew
ay/23/track">
    <interface
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual-gatew
ay/23/track/interface/FortyGigabitEthernet%2C%221/0/50%22">
      <interface-type>FortyGigabitEthernet</interface-type>
      <interface-name>1/0/50</interface-name>
      <priority>25</priority>
    </interface>
    <network
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual-gatew
ay/23/track/network/%221.1.1.1/24%22">
      <network-address>1.1.1.1/24</network-address>
      <priority>26</priority>
    </network>
    <next-hop
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual-gatew
ay/23/track/next-hop/1.1.1.1">
      <next-hop-address>1.1.1.1</next-hop-address>
      <priority>28</priority>
    </next-hop>
  </track>
  <enable>true</enable>
  <load-balancing
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual-gatew
ay/23/load-balancing">
    <threshold-priority>25</threshold-priority>
  </load-balancing>
</fabric-virtual-gateway>
```

The following is an example of the POST operation to track the network address 1.1.1.1/24.

### URI

```
http://host:80/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual
-gateway/23/track
```

### Request body

```
<network>
  <network-address>1.1.1.1/24</network-address>
  <priority>26</priority>
</network>
```

### Response body

None

The following is an example of the DELETE operation to remove the tracking of a FortyGigabitEthernet interface.

**URI**

`http://host:80/rest/config/running/rbridge-id/1/interface/Ve/1/ip/fabric-virtual-gateway/23/track/interface/FortyGigabitEthernet/%221/0/50%22`

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.1	The API call was introduced.
6.0.0	The API call was not supported.
6.0.1	The API call was supported.

## rbridge-id/{rbridge-id}/interface/ve/{vlan-id}/ipv6/ fabric-virtual-gateway

Configures, modifies, or retrieves the Internet Protocol version 6 (IPv6) Fabric-Virtual-Gateway configuration in RBridge-ID.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-id}/interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway	Internet Protocol version 6 (IPv6) Fabric-Virtual-Gateway configuration in RBridge-ID

### Parameters

Name	Description
<i>local-ipv6-gw-id</i>	Gateway ID number
<i>ipv6-interface-type</i>	Supported interface types are: <ul style="list-style-type: none"> <li>FortyGigabitEthernet</li> <li>GigabitEthernet</li> <li>HundredGigabitEthernet</li> <li>TenGigabitEthernet</li> <li>Port-Channel</li> </ul>
<i>ipv6-interface-name</i>	Interface name in [rbridge-id]/slot/port format or Port-channel interface number
<i>priority</i>	Track priority
<i>ipv6-network-address</i>	IPv6 address/mask
<i>ipv6-next-hop-address</i>	Next hop address - IP address
<i>enable</i>	Enables Fabric-Virtual-Gateway
<i>disable</i>	Disables Fabric-Virtual-Gateway
<i>threshold-priority</i>	Threshold priority

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the Internet Protocol version 6 (IPv6) Fabric-Virtual-Gateway configuration in RBridge-ID.

#### URI

```
http://host:80/rest/config/running/rbridge-id/1/interface/Ve/1/ipv6/fabric-virtual-gateway
```

#### Request body

None



**Response body**

```

<fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ipv6/fabric-virtual-gat
eway/1">
  <local-ipv6-gw-id>1</local-ipv6-gw-id>
  <track
  <track
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ipv6/fabric-virtual-gat
eway/1/track">
  <interface
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ipv6/fabric-virtual-gat
eway/1/track/interface/FortyGigabitEthernet%2C%221/0/50%22">
  <ipv6-interface-type>FortyGigabitEthernet</ipv6-interface-type>
  <ipv6-interface-name>1/0/50</ipv6-interface-name>
  <priority>22</priority>
  </interface>
  <network
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ipv6/fabric-virtual-gat
eway/1/track/network/%1::/64%22">
  <ipv6-network-address>1::/64</ipv6-network-address>
  <priority>24</priority>
  </network>
  <next-hop
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ipv6/fabric-virtual-gat
eway/1/track/next-hop/1::1">
  <ipv6-next-hop-address>1::1</ipv6-next-hop-address>
  <priority>25</priority>
  </next-hop>
  </track>
  <enable>true</enable>
  <disable>true</disable>
  <load-balancing
y:self="/rest/config/running/rbridge-id/1/interface/Ve/1/ipv6/fabric-virtual-gat
eway/1/load-balancing">
  <threshold-priority>25</threshold-priority>
  </load-balancing>
</fabric-virtual-gateway>

```

The following is an example of the POST operation to track a TenGigabitEthernet interface.

**URI**

```
http://host:80/rest/config/running/rbridge-id/1/interface/ve/1/ipv6/fabric-virtu
al-gateway/25/track
```

**Request body**

```

<interface>
  <ipv6-interface-type>tengigabitethernet</ipv6-interface-type>
  <ipv6-interface-name>1/0/5</ipv6-interface-name>
  <priority>25</priority>
</interface>

```

**Response body**

None

The following is an example of the DELETE operation to remove the tracking of a FortyGigabitEthernet interface.

## 4 Configuration APIs

### URI

`http://host:80/rest/config/running/rbridge-id/1/interface/ve/1/ipv6/fabric-virtual-gateway/1/track/interface/fortygigabitethernet/%221/0/55%22`

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.1	The API call was introduced.
6.0.0	The API call was not supported.
6.0.1	The API call was supported.

## rbridge-id/{rbridge-number}/ip

Configures, modifies, or retrieves Internet Protocol (IP).

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip	Configure Internet Protocol (IP)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/as-path	Configures IP AS Path. Refer to <a href="#">rbridge-id/{rbridge-number}/ip/as-path</a> for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/community-list	Configures IP Community list. Refer to <a href="#">rbridge-id/{rbridge-number}/ip/community-list</a> for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/dhcp	Configures Dynamic Host Configuration Protocol (DHCP). Refer to <a href="#">rbridge-id/{rbridge-number}/ip/dhcp</a> for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/extcommunity-list	Sets BGP Extended Community filter. Refer to <a href="#">rbridge-id/{rbridge-number}/ip/extcommunity-list</a> for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/import	Imports IPV4 routes. Refer to <a href="#">rbridge-id/{rbridge-number}/ip/import</a> for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/prefix-list	Configures IP address prefix list. Refer to <a href="#">rbridge-id/{rbridge-number}/ip/prefix-list</a> for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/route	Configures static route. Refer to <a href="#">rbridge-id/{rbridge-number}/ip/route</a> for information.

### Parameters

Name	Description
<i>route</i>	Configures static route
<i>extcommunity-list</i>	Sets BGP Extended Community filter
<i>import</i>	Import IPV4 routes
<i>dhcp</i>	Configures Dynamic Host Configuration Protocol (DHCP)
<i>community-list</i>	Configures IP Community list
<i>as-path</i>	Configures IP AS Path
<i>prefix-list</i>	Configures IP address prefix list
<i>load-sharing</i>	Enable IP load sharing
<i>router-id</i>	Change the router ID already in use

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

---

**NOTE**

load-sharing is a deprecated command.

---

**Examples**

The following is an example of the GET operation to retrieve the configuration details.

**URI**

http://host:80/rest/config/running/rbridge-id/195/ip

**Request body**

None

**Response body**

```
<ip xmlns="urn:brocade.com:mgmt:brocade-rbridge"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/ip">
  <router-id xmlns="urn:brocade.com:mgmt:brocade-rtm">10.24.25.26</router-id>
  <load-sharing xmlns="urn:brocade.com:mgmt:brocade-rtm">2</load-sharing>
  <route xmlns="urn:brocade.com:mgmt:brocade-rtm"
y:self="/rest/config/running/rbridge-id/195/ip/route"/>
    <extcommunity-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ip/extcommunity-list/1"/>
      <import xmlns="urn:brocade.com:mgmt:brocade-rtm"
y:self="/rest/config/running/rbridge-id/195/ip/import"/>
        <dhcp xmlns="urn:brocade.com:mgmt:brocade-dhcp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/ip/dhcp"/>
          <community-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ip/community-list"/>
            <as-path xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ip/as-path"/>
              <prefix-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ip/prefix-list/prefix554%2Cseq%2C10"
/>
            </prefix-list>
          </as-path>
        </community-list>
      </import>
    </extcommunity-list>
  </route>
</ip>
```

**History**

---

Release version	History
5.0.0	The API call was introduced.

---

## rbridge-id/{rbridge-number}/ip/as-path

Configures, modifies, or retrieves Internet Protocol (IP) AS path.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip	Configure Internet Protocol (IP)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/as-path	Configures IP AS Path

### Parameters

Name	Description
<i>name</i>	Community list name
<i>seq-keyword</i>	Sequence number of entry
<i>instance</i>	Instance number
<i>ip-action</i>	The following actions can be performed: <ul style="list-style-type: none"> <li>deny - Disallow matching pattern</li> <li>permit - Allow matching pattern</li> <li>seq - Sequence number of entry</li> </ul>
<i>ip-reg-expr</i>	Regular expression

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/ip/as-path
```

#### Request body

None

#### Response body

```
<as-path xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ip/as-path">
  <access-list
y:self="/rest/config/running/rbridge-id/195/ip/as-path/access-list/seq%2Cseq%2C5
">
    <name>seq</name>
    <seq-keyword>seq</seq-keyword>
    <instance>5</instance>
    <ip-action>permit</ip-action>
```

## 4 Configuration APIs

```
<ip-reg-expr>myaspath</ip-reg-expr>
</access-list>
</as-path>
```

The following is an example of the POST operation to add IP as path configurations.

### URI

`http://host:80/rest/config/running/rbridge-id/1/ip/as-path`

### Request body

```
<access-list>
  <name>acl1</name>
  <seq-keyword>seq</seq-keyword>
  <instance>6</instance>
  <ip-action>permit</ip-action>
  <ip-reg-expr>myaspath</ip-reg-expr>
</access-list>
```

### Response body

None

The following is an example of the DELETE operation to remove the IP as path configuration.

### URI

`http://host:80/rest/config/running/rbridge-id/1/ip/as-path/access-list`

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/ip/community-list

Configures, modifies, or retrieves Internet Protocol (IP) community list.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip	Configure Internet Protocol (IP)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/community-list	Configures IP Community list

### Parameters

Name	Description
<i>name</i>	Community list name
<i>seq-keyword</i>	Sequence number of entry
<i>instance</i>	Instance number
<i>ip-action</i>	The following actions can be performed: <ul style="list-style-type: none"> <li>deny - Disallow matching pattern</li> <li>permit - Allow matching pattern</li> </ul>
<i>ip-community-reg-expr</i>	A ordered community list regular expression

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/ip
```

#### Request body

None

#### Response body

```
<community-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ip/community-list">
  <extended
y:self="/rest/config/running/rbridge-id/195/ip/community-list/extended/comlist1%
2Cseq%2C5">
    <name>comlist1</name>
    <seq-keyword>seq</seq-keyword>
    <instance>5</instance>
    <ip-action>deny</ip-action>
    <ip-community-reg-expr>test</ip-community-reg-expr>
  </extended>
```

## 4 Configuration APIs

```
</community-list>
```

The following is an example of the POST operation to add IP community list configurations.

### URI

```
http://host:80/rest/config/running/rbridge-id/1/ip/community-list
```

### Request body

```
<extended>
  <name>comlist5</name>
  <seq-keyword>seq</seq-keyword>
  <instance>6</instance>
  <ip-action>deny</ip-action>
  <ip-community-reg-expr>test1</ip-community-reg-expr>
</extended>
```

### Response body

None

The following is an example of the DELETE operation to remove the IP community list configuration.

### URI

```
http://host:80/rest/config/running/rbridge-id/1/ip/community-list/extended
```

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.



## rbridge-id/{rbridge-number}/ip/dhcp

Configures, modifies, or retrieves IP Dynamic Host Configuration Protocol (DHCP).

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip	Configure Internet Protocol (IP)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/dhcp	Configures Dynamic Host Configuration Protocol (DHCP)

### Parameters

Name	Description
<i>option</i>	Enables DHCP relay information

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/ip
```

#### Request body

None

#### Response body

```
<dhcp xmlns="urn:brocade.com:mgmt:brocade-dhcp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/ip/dhcp">
  <relay y:self="/rest/config/running/rbridge-id/1/ip/dhcp/relay">
    <information
y:self="/rest/config/running/rbridge-id/1/ip/dhcp/relay/information">
      <option>true</option>
    </information>
  </relay>
</dhcp>
```

### History

Release version	History
6.0.1	The API call was introduced.

## rbridge-id/{rbridge-number}/ip/extcommunity-list

Configures, modifies, or retrieves IP BGP Extended Community filter.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip	Configure Internet Protocol (IP)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/extcommunity-list	Sets BGP Extended Community filter

### Parameters

Name	Description
<i>extcommunity-list-num</i>	Extended Community list Instance number
<i>ext-community-action</i>	The following matching patterns can be set: <ul style="list-style-type: none"> <li>deny - Disallow matching pattern</li> <li>permit - Allow matching pattern</li> </ul>
<i>ext-community-expr</i>	<ul style="list-style-type: none"> <li>rt - ASN:nn or IpAddress:nn</li> <li>soo - ASN:nn or IpAddress:nn</li> </ul>

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/ip
```

#### Request body

None

#### Response body

```
<extcommunity-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ip/extcommunity-list/1">
  <extcommunity-list-num>1</extcommunity-list-num>
  <ext-community-action>permit</ext-community-action>
  <ext-community-expr>rt 12:12 soo 13:11</ext-community-expr>
</extcommunity-list>
```

The following is an example of the DELETE operation to remove the IP extcommunity list configuration.

#### URI

```
http://host:80/rest/config/running/rbridge-id/1/ip/extcommunity-list
```

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/ip/import

Configures, modifies, or retrieves IPv4 routes.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip	Configure Internet Protocol (IP)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/import	Imports IPv4 routes

### Parameters

Name	Description
src-vrf	Name of VRF
map	Route-map name

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

http://host:80/rest/config/running/rbridge-id/195/ip

#### Request body

None

#### Response body

```
<import xmlns="urn:brocade.com:mgmt:brocade-rtm"
y:self="/rest/config/running/rbridge-id/195/ip/import">
  <routes
y:self="/rest/config/running/rbridge-id/195/ip/import/routes/mgmt-vrf%2Cmap1">
    <src-vrf>mgmt-vrf</src-vrf>
    <map>map1</map>
  </routes>
</import>
```

### History

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/ip/prefix-list

Configures, modifies, or retrieves IP address prefix list.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip	Configure Internet Protocol (IP)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/prefix-list	Configures IP address prefix list

### Parameters

Name	Description
<i>name</i>	Community list name
<i>seq-keyword</i>	Sequence number of entry
<i>action-ipp</i>	The following actions can be performed: <ul style="list-style-type: none"> <li>deny - Disallow matching pattern</li> <li>permit - Allow matching pattern</li> </ul>
<i>instance</i>	Specifies the instance number
<i>iprefix-ipp</i>	IPv4 prefix
<i>le</i>	Prefix list less than the specified value

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/ip
```

#### Request body

None

#### Response body

```
<prefix-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ip/prefix-list/prefix554%2Cseq%2C10"
>
  <name>prefix554</name>
  <seq-keyword>seq</seq-keyword>
  <instance>10</instance>
  <action-ipp>permit</action-ipp>
  <iprefix-ipp>192.168.10.1/24</prefix-ipp>
  <le>64</le>
```

## 4 Configuration APIs

</prefix-list>

### *History*

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/ip/route

Configures, modifies, or retrieves IP static route.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/route	Configures static route
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/route/static	BFD static route
<base_URI>/config/running/rbridge-id/{rbridge-number}/ip/route/static/bfd	Configure BFD session

### Parameters

Name	Description
static-route-dest	Destination IP address
static-route-next-hop	Next hop ip address

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

http://host:80/rest/config/running/rbridge-id/195/ip

#### Request body

None

#### Response body

```
<route xmlns="urn:brocade.com:mgmt:brocade-rtm"
y:self="/rest/config/running/rbridge-id/195/ip/route">
  <static-route-nh
y:self="/rest/config/running/rbridge-id/195/ip/route/static-route-nh/%220.0.0.0/0%22%2C10.20.232.1">
    <static-route-dest>0.0.0.0/0</static-route-dest>
    <static-route-next-hop>10.20.232.1</static-route-next-hop>
  </static-route-nh>
  <static y:self="/rest/config/running/rbridge-id/1/ip/route/static">
    <bfd y:self="/rest/config/running/rbridge-id/1/ip/route/static/bfd">
      <bfd-static-route
y:self="/rest/config/running/rbridge-id/1/ip/route/static/bfd/bfd-static-route/10.20.38.100%2C10.20.34.120">
        <bfd-static-route-dest>10.20.38.100</bfd-static-route-dest>
        <bfd-static-route-src>10.20.34.120</bfd-static-route-src>
```

## 4 Configuration APIs

```
<interval>100</interval>
<min-rx>75</min-rx>
<multiplier>4</multiplier>
</bfd-static-route>
<holdover-interval>10</holdover-interval>
</bfd>
</static>
</route>
```

The following is an example of the POST operation to add the BFD holdover interval.

### URI

`http://host:80/rest/config/running/rbridge-id/1/ip/route/static/bfd`

### Request body

```
<holdover-interval>20</holdover-interval>
```

### Response body

None

The following is an example of the DELETE operation to remove the BFD holdover interval.

### URI

`http://host:80/rest/config/running/rbridge-id/1/ip/route/static/bfd/holdover-interval`

### Request body

None

### Response body

None

## *History*

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the new URI <base_URI>/config/running/rbridge-id/{rbridge-number}/ip/route/static/bfd.



## rbridge-id/{rbridge-number}/ipv6

Configures, modifies, or retrieves Internet Protocol version 6 (IPv6).

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6	Configure Internet Protocol version 6 (IPv6)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/import	Imports IPV6 routes. Refer to <a href="#">rbridge-id/{rbridge-number}/ipv6/import</a> for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/nd	Configures Neighbor Discovery commands. Refer to <a href="#">rbridge-id/{rbridge-number}/ipv6/nd</a> for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/prefix-list	Sets IPv6 address prefix list. Refer to <a href="#">rbridge-id/{rbridge-number}/ipv6/prefix-list</a> for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/protocol	Configures IPv6 protocol. Refer to <a href="#">rbridge-id/{rbridge-number}/ipv6/protocol</a> for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/route	Configures IPv6 unicast static route. Refer to <a href="#">rbridge-id/{rbridge-number}/ipv6/route</a> for information.
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/router	Configures IPv6 router. Refer to <a href="#">rbridge-id/{rbridge-number}/ipv6/router</a> for information.

### Parameters

Name	Description
<i>protocol</i>	Protocol configuration
<i>prefix-list</i>	IPv6 address prefix list
<i>route</i>	IPv6 unicast static route
<i>import</i>	Imports IPV6 routes
<i>nd</i>	Neighbor Discovery commands
<i>router</i>	IPv6 router

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/ipv6
```

### Request body

None

### Response body

```
<ipv6 xmlns="urn:brocade.com:mgmt:brocade-rbridge"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/ipv6">
  <protocol xmlns="urn:brocade.com:mgmt:brocade-vrrpv3"
y:self="/rest/config/running/rbridge-id/195/ipv6/protocol"/>
  <prefix-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ipv6/prefix-list/deny554%2Cseq%2C10"
/>
  <route xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/ipv6/route"/>
  <import xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm"
y:self="/rest/config/running/rbridge-id/195/ipv6/import"/>
  <nd xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra"
y:self="/rest/config/running/rbridge-id/195/ipv6/nd"/>
  <router y:self="/rest/config/running/rbridge-id/195/ipv6/router"/>
</ipv6>
```

### History

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/ipv6/import

Configures, modifies, or retrieves IPv6 routes.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6	Configure Internet Protocol version 6 (IPv6)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/import	Imports IPv6 routes

### Parameters

Name	Description
src-vrf	Name of VRF
map	Route-map name

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/ipv6/import
```

#### Request body

None

#### Response body

```
<import xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm"
y:self="/rest/config/running/rbridge-id/195/ipv6/import">
  <routes
y:self="/rest/config/running/rbridge-id/195/ipv6/import/routes/mgmt-vrf%2Cmap">
    <src-vrf>mgmt-vrf</src-vrf>
    <map>map</map>
  </routes>
</import>
```

### History

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/ipv6/nd

Configures, modifies, or retrieves IPv6 Neighbor Discovery commands.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6	Configure Internet Protocol version 6 (IPv6)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/nd	Configures Neighbor Discovery commands

### Parameters

Name	Description
time	Retransmit time interval for neighbor solicitations, sent as part of duplicate address detection

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/ipv6/nd
```

#### Request body

None

#### Response body

```
<nd xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra"
y:self="/rest/config/running/rbridge-id/195/ipv6/nd">
  <dad y:self="/rest/config/running/rbridge-id/195/ipv6/nd/dad">
    <time>2</time>
  </dad>
</nd>
```

The following is an example of the POST operation to add retransmit time interval.

#### URI

```
http://host:80/rest/config/running/rbridge-id/1/ipv6/nd/dad
```

#### Request body

```
<dad>
  <time>2</time>
</dad>
```

**Response body**

None

The following is an example of the DELETE operation to remove the transmit time interval.

**URI**

`http://host:80/rest/config/running/rbridge-id/1/ipv6/nd/dad`

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/ipv6/prefix-list

Configures, modifies, or retrieves IPv6 address prefix list.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6	Configure Internet Protocol version 6 (IPv6)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/prefix-list	Sets IPv6 address prefix list

### Parameters

Name	Description
<i>name</i>	An ordered community-list regular expression
<i>seq-keyword</i>	Specifies the "seq" keyword
<i>instance</i>	Specifies the sequence number for the rule
<i>action-ipp</i>	Specifies the rules for transmission. The prefix list matches only on the specified ipv6-prefix/prefix-length unless you use the ge ge-value or le le-value parameters
<i>ipv6-prefix-ipp</i>	IPv6 prefix
<i>le</i>	If you specify only le le-value, then the range is from le-value to the prefix length parameter

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/ipv6/prefix-list
```

#### Request body

None

#### Response body

```
<prefix-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
y:self="/rest/config/running/rbridge-id/195/ipv6/prefix-list/deny554%2Cseq%2C10"
>
  <name>deny554</name>
  <seq-keyword>seq</seq-keyword>
  <instance>10</instance>
  <action-ipp>permit</action-ipp>
  <ipv6-prefix-ipp>2001:5554:53::/48</ipv6-prefix-ipp>
  <le>64</le>
```

```
</prefix-list>
```

The following is an example of the DELETE operation to remove the IPv6 prefix list configuration.

**URI**

```
http://host:80/rest/config/running/rbridge-id/1/ipv6/prefix-list
```

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/ipv6/protocol

Configures, modifies, or retrieves Internet Protocol version 6 (IPv6).

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/protocol	Configure Internet Protocol version 6 (IPv6)

### Parameters

Name	Description
vrrp	Virtual Router Redundacy Protocol IPv6
vrrp-extended	Virtual Router Redundacy Protocol IPv6 Extended

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/ipv6/protocol
```

#### Request body

None

#### Response body

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-vrrpv3"
y:self="/rest/config/running/rbridge-id/195/ipv6/protocol">
  <vrrp>true</vrrp>
  <vrrp-extended>true</vrrp-extended>
</protocol>
```

The following is an example of the POST operation to add protocol configurations.

#### URI

```
http://host:80/rest/config/running/rbridge-id/1/ipv6/protocol
```

#### Request body

```
<protocol>
  <vrrp>true</vrrp>
  <vrrp-extended>true</vrrp-extended>
</protocol>
```



**Response body**

None

The following is an example of the DELETE operation to disable VRRP.

**URI**

```
http://host:80/rest/config/running/rbridge-id/1/ipv6/protocol/vrrp
```

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/ipv6/route

Configures, modifies, or retrieves IPv6 unicast static route.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6	Configure Internet Protocol version 6 (IPv6)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/route	Configures IPv6 unicast static route

### Parameters

Name	Description
<i>bfd-ipv6-static-route-dest</i>	Destination IPv6 address
<i>bfd-ipv6-static-route-src</i>	Source IPv6 address
<i>interval</i>	Transmit interval time
<i>min-rx</i>	Receive interval time
<i>multiplier</i>	Multiplier value
<i>static-route-dest</i>	Destination IP address
<i>static-route-next-hop</i>	Next hop ip address
<i>metric</i>	Specifies a value that the Layer 3 switch uses to compare this route to other static routes in the IPv6 static route table that have the same destination
<i>distance</i>	Specifies an administrative distance
<i>tag</i>	Specifies a tag value for the route.
<i>static-route-oif-type</i>	Static route interface type
<i>InterfaceNumber</i>	Interface number
<i>link-local-static-route-dest</i>	Destination link local static route IP address
<i>link-local-nexthop</i>	Link local next hop address
<i>link-local-route-oif-type</i>	Link local route interface type
<i>linklocalinterface</i>	Link local interface

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/ipv6/route
```

**Request body**

None

**Response body**

```

<route xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/ipv6/route">
  <static y:self="/rest/config/running/rbridge-id/1/ipv6/route/static">
    <bfd y:self="/rest/config/running/rbridge-id/1/ipv6/route/static/bfd">
      <bfd-ipv6-static-route
y:self="/rest/config/running/rbridge-id/1/ipv6/route/static/bfd/bfd-ipv6-static-
route/2001:284::24:23%2C2004:563::54:34">
        <bfd-ipv6-static-route-dest>2001:284::24:23</bfd-ipv6-static-route-dest>
        <bfd-ipv6-static-route-src>2004:563::54:34</bfd-ipv6-static-route-src>
        <interval>100</interval>
        <min-rx>75</min-rx>
        <multiplier>4</multiplier>
      </bfd-ipv6-static-route>
      <holdover-interval>5</holdover-interval>
    </bfd>
  </static>
  <static-route-nh
y:self="/rest/config/running/rbridge-id/195/ipv6/route/static-route-nh/%221700:5
4:1::/64%22%2C2001:2004::5401">
    <static-route-dest>1700:54:1::/64</static-route-dest>
    <static-route-next-hop>2001:2004::5401</static-route-next-hop>
  </static-route-nh>
  <static-route-nh
y:self="/rest/config/running/rbridge-id/195/ipv6/route/static-route-nh/%222001::
/16%22%2C2001:db:0:ee44::1">
    <static-route-dest>2001::/16</static-route-dest>
    <static-route-next-hop>2001:db:0:ee44::1</static-route-next-hop>
    <metric>3</metric>
    <distance>60</distance>
    <tag>67</tag>
  </static-route-nh>
  <static-route-oif
y:self="/rest/config/running/rbridge-id/195/ipv6/route/static-route-oif/%221700:
54::/64%22%2Ctengigabitethernet%2C%2254/0/9%22">
    <static-route-dest>1700:54::/64</static-route-dest>
    <static-route-oif-type>tengigabitethernet</static-route-oif-type>
    <InterfaceNumber>54/0/9</InterfaceNumber>
  </static-route-oif>
  <link-local-static-route-nh
y:self="/rest/config/running/rbridge-id/195/ipv6/route/link-local-static-route-n
h/%221900:54::3/128%22%2Cfe80::210:94ff:fe54:954%2Ctengigabitethernet%2C%2254/0/
9%22">
    <link-local-static-route-dest>1900:54::3/128</link-local-static-route-dest>
    <link-local-nexthop>fe80::210:94ff:fe54:954</link-local-nexthop>
    <link-local-route-oif-type>tengigabitethernet</link-local-route-oif-type>
    <linklocalinterface>54/0/9</linklocalinterface>
  </link-local-static-route-nh>
  <static-route-nh-vrf
y:self="/rest/config/running/rbridge-id/195/ipv6/route/static-route-nh-vrf/%2220
01::/16%22%2Cvrf1%2C2001::">
    <static-route-next-vrf-dest>2001::/16</static-route-next-vrf-dest>
    <next-hop-vrf>vrf1</next-hop-vrf>
    <static-route-next-hop>2001::</static-route-next-hop>

```

## 4 Configuration APIs

```
</static-route-nh-vrf>  
</route>
```

The following is an example of the POST operation to add the BFD holdover interval.

### URI

```
http://host:80/rest/config/running/rbridge-id/1/ipv6/route/static/bfd
```

### Request body

```
<holdover-interval>20</holdover-interval>
```

### Response body

None

The following is an example of the DELETE operation to remove the BFD holdover interval.

### URI

```
http://host:80/rest/config/running/rbridge-id/1/ipv6/route/static/bfd/holdover-interval
```

### Request body

None

### Response body

None

## *History*

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the <i>bfd</i> feature commands under static.

## rbridge-id/{rbridge-number}/ipv6/router

Configures, modifies, or retrieves IPv6 router.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6	Configure Internet Protocol version 6 (IPv6)
<base_URI>/config/running/rbridge-id/{rbridge-number}/ipv6/router	Configures IPv6 router

### Parameters

Name	Description
<i>vrf</i>	Name of VRF
<i>area-id</i>	Area ID in IP address or decimal format
<i>spi</i>	Security parameter Index
<i>ah</i>	Use Authentication Header <ul style="list-style-type: none"> <li>• hmac-md5 - Use hmac-md5 authentication algorithm</li> <li>• hmac-sha1 - Use hmac-sha1 authentication algorithm</li> </ul>
<i>no-encrypt</i>	Enable do not encrypt the key
<i>key</i>	Key used for Authentication Header
<i>reference-bandwidth</i>	Set OSPFv3 Auto-cost Reference-bandwidth in Mbits per second
<i>database-overflow-interval</i>	Poll interval
<i>always</i>	Always advertise default route
<i>metric</i>	OSPF metric for default route
<i>metric-type</i>	OSPF metric type for default route
<i>default-metric</i>	Default metric
<i>default-passive-interface</i>	Set OSPF interface passive
<i>route-type</i>	<ul style="list-style-type: none"> <li>• external - External type 5 and type 7 routes</li> <li>• inter-area - inter-area routes</li> <li>• intra-area - Intra-area routes</li> </ul>
<i>distance-value</i>	Distance for the given type of routes
<i>distribute-list-prefix-list-name</i>	Prefix list name
<i>in</i>	Inbound filtering
<i>external-lsdb-limit</i>	External link state database limit
<i>strict-lsa-checking</i>	Set strict LSA checking
<i>key-add-remove-interval</i>	Key add/remove interval
<i>key-rollover-interval</i>	New key rollover interval
<i>log-status-change</i>	Enable log status change

## 4 Configuration APIs

Name	Description
<i>maximum-paths</i>	Set the maximum number of paths to a destination
<i>metric-type</i>	<ul style="list-style-type: none"><li>• type1 - Metric Type 1 (small)</li><li>• type2 - Metric Type 2 (large)</li></ul>
<i>nonstop-routing</i>	Enable nonstop-routing capability
<i>lsa-group-pacing</i>	OSPFv3 LSA group pacing timer
<i>static-route-dest</i>	Destination IP address
<i>static-route-next-hop</i>	Next hop ip address
<i>metric</i>	Specifies a value that the Layer 3 switch uses to compare this route to other static routes in the IPv6 static route table that have the same destination
<i>distance</i>	Specifies an administrative distance
<i>tag</i>	Specifies a tag value for the route.
<i>area-id</i>	Area address in dotted decimal or decimal format
<i>no-summary</i>	When configured on the NSSA area border router (ABR) this parameter prevents any Type 3 and Type 4 summary link-state advertisement (LSA) from being injected into the area
<i>log</i>	Enable logging for OSPFv3 activities. Possible completions are: <ul style="list-style-type: none"><li>• adjacency - Logs adjacency changes</li><li>• all - Logs everything</li><li>• bad-packet - Logs bad packets</li><li>• database - Logs LSA activity</li><li>• retransmit - Logs retransmit activity</li></ul>

### *Usage guidelines*

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

#### **NOTE**

log-status-change is a deprecated command.

### *Examples*

The following is an example of the GET operation to retrieve the configuration details.

#### **URI**

```
http://host:80/rest/config/running/rbridge-id/195/ipv6/router
```

#### **Request body**

None

#### **Response body**

```
<router y:self="/rest/config/running/rbridge-id/195/ipv6/router">
  <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3"
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf">
    <vrf>default-vrf</vrf>
```

```

    <area
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/area/10
.25.26.24">
    <area-id>0.0.5.4</area-id>
    <stub
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/area/0.
0.5.4/stub">
    <no-summary>>true</no-summary>
    <stub-area-metric>10</stub-area-metric>
    </stub>
    <authentication
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/area/10
.25.26.24/authentication">
    <spi>514</spi>
    <ah>hmac-md5</ah>
    <no-encrypt>true</no-encrypt>
    <key>key1</key>
    </authentication>
    </area>
    <auto-cost
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/auto-co
st">
    <reference-bandwidth>25</reference-bandwidth>
    </auto-cost>
    <database-overflow-interval>15</database-overflow-interval>
    <default-information-originate
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/default
-information-originate">
    <always>true</always>
    <metric>20</metric>
    <metric-type>type1</metric-type>
    </default-information-originate>
    <default-metric>25</default-metric>
    <default-passive-interface>true</default-passive-interface>
    <distance
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/distanc
e/external">
    <route-type>external</route-type>
    <distance-value>5</distance-value>
    </distance>
    <distribute-list
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/distrib
ute-list">
    <route-map
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/distrib
ute-list/route-map"/>
    <prefix-list
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/distrib
ute-list/prefix-list">
<distribute-list-prefix-list-name>prefix</distribute-list-prefix-list-name>
    <in>true</in>
    </prefix-list>
    </distribute-list>
    <external-lsdb-limit>2500</external-lsdb-limit>
    <graceful-restart
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/gracefu
l-restart">
    <helper
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/gracefu
l-restart/helper">

```

```

        <strict-lsa-checking>true</strict-lsa-checking>
    </helper>
</graceful-restart>
<key-add-remove-interval>1000</key-add-remove-interval>
<key-rollover-interval>350</key-rollover-interval>
<log-status-change>true</log-status-change>
<redistribute
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/redistr
ibute">
    <connected
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/redistr
ibute/connected">
        <metric-type>type1</metric-type>
    </connected>
    <static
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/redistr
ibute/static">
        <route-map>route</route-map>
        <metric>550</metric>
    </static>
    <bgp
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/redistr
ibute/bgp">
        <metric>500</metric>
    </bgp>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/redistr
ibute/ospf">
        <route-map>route1</route-map>
        <metric>55</metric>
        <metric-type>type1</metric-type>
    </ospf>
</redistribute>
<timers
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/timers"
>
    <lsa-group-pacing>245</lsa-group-pacing>
    <spf
y:self="/rest/config/running/rbridge-id/195/ipv6/router/ospf/default-vrf/timers/
spf"/>
    </timers>
    <nonstop-routing>true</nonstop-routing>
    <max-metric xmlns="urn:brocade.com:mgmt:brocade-ospfv3"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/ipv6/router/ospf/default-vrf/max-metri
c">
        <router-lsa
y:self="/rest/config/running/rbridge-id/1/ipv6/router/ospf/default-vrf/max-metri
c/router-lsa">
            <include-stub>true</include-stub>
        </router-lsa>
    </max-metric>
    <maximum-paths>7</maximum-paths>
    <log xmlns="urn:brocade.com:mgmt:brocade-ospfv3"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/ipv6/router/ospf/default-vrf/log">
        <adjacency
y:self="/rest/config/running/rbridge-id/1/ipv6/router/ospf/default-vrf/log/adjac
ency">

```



```

        <dr-only>true</dr-only>
    </adjacency>
    <all>true</all>
    <bad-packet
y:self="/rest/config/running/rbridge-id/1/ipv6/router/ospf/default-vrf/log/bad-p
acket">
        <checksum>true</checksum>
    </bad-packet>
    <database>true</database>
    <retransmit>true</retransmit>
    </log>
</ospf>
</router>

```

The following is an example of the DELETE operation to remove the area configuration.

### URI

http://host:80/rest/config/running/rbridge-id/1/ipv6/router/ospf/default-vrf/area

### Request body

None

### Response body

None

## History

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the parameter <i>log</i> under <i>ospf</i> and <i>include-stub</i> under <i>max-metric</i> .

## rbridge-id/{rbridge-number}/linecard

Configures, modifies, or retrieves line card configurations for the specified slot.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/linecard	Configure line card for the specified slot

### Parameters

Name	Description
<i>linecardName</i>	Slot number
<i>linecardType</i>	The following linecard types can be set: <ul style="list-style-type: none"> <li>• LC6X100G - 6X100G line card</li> <li>• LC12X40G - 12X40G line card</li> <li>• LC27X40G - 27X40G line card</li> <li>• LC36X10G - 36X10G line card</li> <li>• LC48X1G - 48X1G line card</li> <li>• LC48X10G - 48X10G line card</li> <li>• LC48X10GT - 48X10GT line card</li> <li>• LC72X1G - 72X1G line card</li> </ul>

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

http://host:80/rest/config/running/rbridge-id/195/linecard

#### Request body

None

#### Response body

```
<linecard xmlns="urn:brocade.com:mgmt:brocade-linecard-management"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/linecard">
  <linecards y:self="/rest/config/running/rbridge-id/195/linecard/linecards/1">
    <linecardName>1</linecardName>
    <linecardType>LC48X10G</linecardType>
  </linecards>
  <linecards y:self="/rest/config/running/rbridge-id/195/linecard/linecards/2">
    <linecardName>2</linecardName>
    <linecardType>LC12X40G</linecardType>
  </linecards>
```

```
</linecard>
```

### *History*

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/logical-chassis

Configures, modifies, or retrieves logical chassis commands.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/logical-chassis	Logical chassis commands

### Parameters

Name	Description
principal-priority	Principal-priority

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

http://host:80/rest/config/running/rbridge-id/195/logical-chassis

#### Request body

None

#### Response body

```
<logical-chassis xmlns="http://brocade.com/ns/brocade-logical-chassis"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/logical-chassis">
  <principal-priority>25</principal-priority>
</logical-chassis>
```

The following is an example of the POST operation to add the logical chassis priority value.

#### URI

http://host:80/rest/config/running/rbridge-id/1/logical-chassis

#### Request body

```
<principal-priority>25</principal-priority>
```

#### Response body

None

The following is an example of the DELETE operation to remove the logical chassis configuration.

**URI**

`http://host:80/rest/config/running/rbridge-id/1/logical-chassis`

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/maps

Configures, modifies, or retrieves MAPS mode-related commands.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/maps	MAPS mode-related commands
<base_URI>/config/running/rbridge-id/{rbridge-number}/maps/email	Configures MAPS e-mail options
<base_URI>/config/running/rbridge-id/{rbridge-number}/maps/enable	Enables MAPS
<base_URI>/config/running/rbridge-id/{rbridge-number}/maps/relay	Configures relay IP mail settings

### Parameters

Name	Description
<i>policy</i>	MAPS policy name
<i>actions</i>	MAPS actions
<i>email</i>	E-mail address for MAPS alerts
<i>hostip</i>	IP address of host relay
<i>domainname</i>	Domain server name

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/1/maps
```

#### Request body

None

#### Response body

```
<maps xmlns="urn:brocade.com:mgmt:brocade-maps"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/maps">
  <enable y:self="/rest/config/running/rbridge-id/1/maps/enable">
    <policy>dflt_aggressive_policy</policy>
    <actions>RASLOG</actions>
  </enable>
  <email y:self="/rest/config/running/rbridge-id/1/maps/email">
```

```

    <email-list
y:self="/rest/config/running/rbridge-id/1/maps/email/email-list/abc@brocade.com"
>
    <email>abc@brocade.com</email>
    </email-list>
</email>
<relay y:self="/rest/config/running/rbridge-id/1/maps/relay/10.20.38.100">
  <hostip>10.20.38.100</hostip>
  <domainname>brocade.com</domainname>
</relay>
</maps>

```

The following is an example of the POST operation to add an e-mail ID.

#### URI

`http://host:80/rest/config/running/rbridge-id/1/maps/email`

#### Request body

```

<email-list>
  <email>admin@abc123.com</email>
</email-list>

```

#### Response body

None

The following is an example of the DELETE operation to remove an e-mail ID.

#### URI

`http://host:80/rest/config/running/rbridge-id/1/maps/email/email-list`

#### Request body

None

#### Response body

None

### *History*

Release version	History
6.0.1	The API call was introduced.

## rbridge-id/{rbridge-number}/openflow

Configures, modifies, or retrieves the OpenFlow configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/openflow	OpenFlow configuration
<base_URI>/config/running/rbridge-id/{rbridge-number}/openflow/logical-instance	OpenFlow logical instance configuration
<base_URI>/config/running/rbridge-id/{rbridge-number}/openflow/controller	Configures OpenFlow controller name
<base_URI>/config/running/rbridge-id/{rbridge-number}/openflow/passive	Passive controller connection

### Parameters

Name	Description
<i>instance-id</i>	OpenFlow logical instance ID
<i>version-name</i>	OpenFlow version
<i>controller-name</i>	OpenFlow controller name
<i>passive-controller-flag</i>	Passive controller connection
<i>passive-controller-ip-address</i>	IP address of the OpenFlow controller
<i>passive-controller-port</i>	OpenFlow controller port number

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/1/openflow
```

#### Request body

None

#### Response body

```
<openflow xmlns="urn:brocade.com:mgmt:brocade-openflow"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/openflow">
  <logical-instance
y:self="/rest/config/running/rbridge-id/1/openflow/logical-instance">
    <instance-id>5</instance-id>
```



```

    <version>
      <version-name>ofv130</version-name>
    </version>
  </logical-instance>
  <controller y:self="/rest/config/running/rbridge-id/1/openflow/controller">
    </controller-name>opencont1</controller-name>
  </controller>
  <passive y:self="/rest/config/running/rbridge-id/1/openflow/passive">
    <no-ssl>
      <passive-controller-flag></passive-controller-flag>
      <passive-controller-ip-address>10.20.38.100</passive-controller-ip-address
    >
      <passive-controller-port>32</passive-controller-port>
    </no-ssl>
  </passive>
</openflow>

```

The following is an example of the PUT operation to configure the passive controller.

#### URI

```
http://host:80/rest/config/running/rbridge-id/1/openflow/logical-instance/1/passive/no-ssl
```

#### Request body

```

<no-ssl>
  <passive-controller-flag></passive-controller-flag>
  <passive-controller-ip-address>10.20.38.100</passive-controller-ip-address>
  <passive-controller-port>32</passive-controller-port>
</no-ssl>

```

#### Response body

None

The following is an example of the DELETE operation to delete the passive controller configuration.

#### URI

```
http://host:80/rest/config/running/rbridge-id/1/openflow/logical-instance/1/passive/no-ssl
```

#### Request body

None

#### Response body

None

### *History*

Release version	History
6.0.1	The API call was introduced.

## rbridge-id/{rbridge-number}/protocol

Configures, modifies, or retrieves protocol configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/protocol	Protocol configuration

### Parameters

Name	Description
<i>vrp</i>	Virtual Router Redundacy Protocol (VRRP)
<i>vrp-extended</i>	Virtual Router Redundacy Protocol Extended (VRRP-E)

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/54/protocol
```

#### Request body

None

#### Response body

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/54/protocol">
  <vrp-extended xmlns="urn:brocade.com:mgmt:brocade-vrrp">true</vrp-extended>
</protocol>
```

### History

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/qos

Configures, modifies, or retrieves RBridge-level QoS configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/qos	Configure RBridge-level QoS configuration
<base_URI>/config/running/rbridge-id/{rbridge-number}/qos/tx-queue	Configure qos egress queueing
<base_URI>/config/running/rbridge-id/{rbridge-number}/qos/rcv-queue	Configure qos ingress queueing

### Parameters

Name	Description
<i>limit</i>	Configure QoS ingress queue limit

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/54/qos
```

#### Request body

None

#### Response body

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/54/qos">
  <tx-queue y:self="/rest/config/running/rbridge-id/54/qos/tx-queue">
    <limit>300</limit>
  </tx-queue>
  <rcv-queue y:self="/rest/config/running/rbridge-id/54/qos/rcv-queue">
    <limit>230</limit>
  </rcv-queue>
</qos>
```

### History

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/route-map

Configures, modifies, or retrieves route-map instance.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/route-map	Configure a route-map instance

### Parameters

Name	Description
<i>name</i>	Route-map name
<i>action-rm</i>	<ul style="list-style-type: none"> <li>deny - Disallow matching pattern</li> <li>permit - Allow matching pattern</li> </ul>
<i>instance</i>	Instance number
<i>vrf</i>	Name of the VRF
<i>prefix-list</i>	Specifies an IP prefix list
<i>acl</i>	Access list name
<i>extcommunity-num</i>	Extended Community list Instance number
<i>metric-rmm</i>	Compares the route MED (metric) to the value specified by number
<i>route-type-rmm</i>	Compares a route type to a specified value
<i>tag-rmm</i>	Compares the route tag with the specified tag value
<i>as-path-access-list-name</i>	Specifies an AS-path ACL
<i>community-access-list-name</i>	BGP community access list name
<i>bgp</i>	Border Gateway Protocol (BGP)
<i>bgp-route-type</i>	Route type in a route-map instance
<i>continue</i>	Use a "continue" clause to allow for more programmable policy configuration and route filtering, with capability to execute additional entries in a route map after an entry is executed with successful "match" and "set" clauses
<i>continue-val</i>	The sequence ID. The range is from 1 through 65535.
<i>next-hop</i>	IPv6 address of next hop

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

**URI**

http://host:80/rest/config/running/rbridge-id/195/route-map

**Request body**

None

**Response body**

```
<route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550">
  <name>route1</name>
  <action-rm>deny</action-rm>
  <instance>550</instance>
  <match
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match"
>
    <vrf>red</vrf>
    <interface
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
interface"/>
      <ipv6
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
ipv6">
        <address
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
ipv6/address"/>
          <prefix-list>prefix1</prefix-list>
          <acl>acl1</acl>
        </address>
        <next-hop
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
ipv6/next-hop">
          <prefix-list>prefix2</prefix-list>
        </next-hop>
        <route-source
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
ipv6/route-source">
          <prefix-list>prefix2</prefix-list>
        </route-source>
      </ipv6>
      <ip
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
ip">
        <address
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
ip/address">
          <prefix-list>prefix1</prefix-list>
          <acl>acl1</acl>
        </address>
        <next-hop
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
ip/next-hop">
          <prefix-list>prefix2</prefix-list>
        </next-hop>
        <route-source
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
ip/route-source">
          <prefix-list>prefix 3</prefix-list>
```

## 4 Configuration APIs

```
        </route-source>
    </ip>
    <extcommunity
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
extcommunity">
        <extcommunity-num>2 </extcommunity-num>
    </extcommunity>
    <metric
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
metric">
        <metric-rmm>55500</metric-rmm>
    </metric>
    <route-type
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
route-type">
        <route-type-rmm>internal</route-type-rmm>
    </route-type>
    <tag
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
tag">
        <tag-rmm>5500</tag-rmm>
    </tag>
    <as-path
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
as-path">
        <as-path-access-list-name>acl6 </as-path-access-list-name>
    </as-path>
    <community
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
community">
        <community-access-list-name>acl10 exact-match</community-access-list-name>
    </community>
    <protocol
y:self="/rest/config/running/rbridge-id/195/route-map/route1%2Cdeny%2C550/match/
protocol">
        <bgp>true</bgp>
        <bgp-route-type>external</bgp-route-type>
    </protocol>
    </match>
    <continue>true</continue>
    <continue-val>600</continue-val>
    <name>route2</name>
    <action-rm>permit</action-rm>
    <instance>100</instance>
    <set
y:self="/rest/config/running/rbridge-id/1/route-map/route2%2Cpermit%2C100/set">
    <ipv6
y:self="/rest/config/running/rbridge-id/1/route-map/route2%2Cpermit%2C100/set/ip
v6">
        <global
y:self="/rest/config/running/rbridge-id/1/route-map/route2%2Cpermit%2C100/set/ip
v6/global">
            <next-global-hop
y:self="/rest/config/running/rbridge-id/1/route-map/route2%2Cpermit%2C100/set/ip
v6/global/next-global-hop/2003:384d::22:24">
                <next-hop>2003:384d::22:24</next-hop>
            </next-global-hop>
        </global>
```

```
    <next-hop
y:self="/rest/config/running/rbridge-id/1/route-map/route2%2Cpermit%2C100/set/ip
v6/next-hop/2006:384d::21:22">
    <next-hop>2006:384d::21:22</next-hop>
  </next-hop>
</ipv6>
</set>
</route-map>
```

## *History*

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the new URI <base_URI>/config/running/rbridge-id/{rbridge-number}/route-map/match.

## rbridge-id/{rbridge-number}/router

Configures, modifies, or retrieves router configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/router	Configure router
<base_URI>/config/running/rbridge-id/{rbridge-number}/router/bgp	Configures, modifies, or retrieves Border Gateway Protocol (BGP). Refer to <a href="#">rbridge-id/{rbridge-number}/router/bgp</a> for information
<base_URI>/config/running/rbridge-id/{rbridge-number}/router/ospf	Configures, modifies, or retrieves OSPF. Refer to <a href="#">rbridge-id/{rbridge-number}/router/ospf</a> for information

### Parameters

Name	Description
<i>max-mcache</i>	Maximum PIM mcache
<i>hello-interval</i>	Hello message interval
<i>nbr-timeout</i>	Neighbor timeout
<i>inactivity-timer</i>	Inactivity interval
<i>message-interval</i>	Periodic join/prune message interval
<i>spt-threshold</i>	Threshold for switching to shortest-path-tree
<i>rp-ip-addr</i>	RP address
<i>prefix-list</i>	IP prefix list name
<i>vrf</i>	Name of the VRF

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/122/router
```

#### Request body

None



**Response body**

```

<router xmlns="urn:brocade.com:mgmt:brocade-rbridge"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/122/router">
  <pim xmlns="urn:brocade.com:mgmt:brocade-pim"
y:self="/rest/config/running/rbridge-id/122/router/pim">
    <max-mcache>2000</max-mcache>
    <hello-interval>35</hello-interval>
    <nbr-timeout>150</nbr-timeout>
    <inactivity-timer>185</inactivity-timer>
    <message-interval>65</message-interval>
    <spt-threshold>infinity</spt-threshold>
    <rp-address
y:self="/rest/config/running/rbridge-id/122/router/pim/rp-address/10.25.0.255">
      <rp-ip-addr>10.25.0.255</rp-ip-addr>
      <prefix-list>preflist1</prefix-list>
    </rp-address>
  </pim>
  <bgp xmlns="urn:brocade.com:mgmt:brocade-bgp"
y:self="/rest/config/running/rbridge-id/122/router/bgp/default">
    <vrf>default</vrf>
  </bgp>
  <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf"
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf">
    <vrf>default-vrf</vrf>
  </ospf>
</router>

```

***History***

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/router/bgp

Configures, modifies, or retrieves Border Gateway Protocol (BGP) configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/router/bgp/vrf/{vrf-name}	Border Gateway Protocol (BGP)

### Parameters

Name	Description
<i>vrf</i>	VRF name
<i>local-as</i>	Local AS number
<i>always-compare-med</i>	Allow comparing MED from different neighbors
<i>compare-med-empty-aspath</i>	Allow comparing MED from different neighbors even with empty AS-path attribute
<i>med-missing-as-worst</i>	Consider routes missing MED attribute as least desirable
<i>as-path-ignore</i>	Ignore AS_PATH length for best route selection
<i>compare-routerid</i>	Compare routerID for identical BGP paths
<i>install-igp-cost</i>	Install IGP cost to next hop instead of MED value as BGP route cost
<i>id</i>	Route-Reflector Cluster-ID
<i>default-local-preference</i>	Configure default local preference value
<i>ext-route-distance</i>	Distance for routes external to the AS
<i>int-route-distance</i>	Distance for routes internal to the AS
<i>lcl-route-distance</i>	Distance for local routes
<i>as4-enable</i>	Enable AS4 capability
<i>num-as-in-path</i>	Number of autonomous systems in the AS-PATH attribute
<i>enforce-first-as</i>	Enforce the first AS for EBGp routes
<i>fast-external-fallover</i>	Reset session if link to EBGp peer goes down
<i>keep-alive</i>	Keepalive interval
<i>hold-time</i>	Hold-time value
<i>log-dampening-debug</i>	Log dampening debug messages
<i>identifier</i>	Confederation AS number
<i>peers</i>	Peer ASs in BGP confederation
<i>holdover-interval</i>	BFD holdover interval
<i>min-tx</i>	BFD desired minimum transmit interval
<i>min-rx</i>	BFD desired minimum receive interval
<i>multiplier</i>	BFD detection time multiplier

Name	Description
<i>address</i>	Neighbor address
<i>bgp-redistribute-internal</i>	Allow redistribution of IBGP routes into IGP
<i>redistribute-connected</i>	Enable connected
<i>metric</i>	Metric for redistributed routes
<i>redistribute-ospf</i>	Enable Open Shortest Path First (OSPF)
<i>redistribute-static</i>	Enable Static routes
<i>ebgp</i>	Number of EBGP paths for load sharing
<i>ibgp</i>	Number of IBGP paths for load sharing
<i>use-load-sharing</i>	Number of load-sharing paths: using load-sharing value
<i>always-propagate</i>	Allow readvertisement of best BGP routes not in IP Forwarding table
<i>default-information-originate</i>	Originate Default Information
<i>rib-route-limit</i>	Limit BGP rib count in routing table
<i>half-time</i>	Half-life time in minutes for the penalty
<i>reuse-value</i>	Value to start reusing a route, with each flap penalty as 1000
<i>start-suppress-time</i>	Value to start suppressing a route, with each flap penalty as 1000
<i>max-suppress-time</i>	Maximum duration in minutes to suppress a stable route
<i>default-metric</i>	Set metric of redistributed routes
<i>update-time</i>	IGP route update interval
<i>restart-time</i>	Maximum restart wait time advertised to neighbors
<i>purge-time</i>	Maximum time before restarting router clean up stale
<i>stale-routes-time</i>	Maximum time before helper router clean up stale routes
<i>metric</i>	Metric for redistributed routes
<i>route-map</i>	Route map reference
<i>bgp-redistribute-internal</i>	Allow redistribution of iBGP routes into IGP
<i>route-map</i>	Route map
<i>aggregate-ip-prefix</i>	Aggregate IP prefix
<i>network-ipv6-address</i>	IP address
<i>advertise-map</i>	Causes the device to advertise the more-specific routes in the specified route map
<i>as-set</i>	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
<i>attribute-map</i>	Causes the device to set attributes for the aggregate routes according to the specified route map
<i>summary-only</i>	Prevents the device from advertising more-specific routes contained within the aggregate route
<i>suppress-map</i>	Prevents the more-specific routes contained in the specified route map from being advertised
<i>ibgp</i>	IBGP distance

Name	Description
<i>multi-as</i>	Enables load sharing of paths from different neighboring autonomous systems
<i>network-ipv4-address</i>	IP address
<i>weight</i>	Weight to be added to routes to this network
<i>backdoor</i>	Changes administrative distance of the route to this network from the EBGp administrative distance
<i>route-map</i>	Route-map name
<i>static-network-address</i>	Static network address

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/122/router/bgp/vrf/default
```

#### Request body

None

#### Response body

```
<bgp xmlns="urn:brocade.com:mgmt:brocade-bgp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/122/router/bgp/default">
  <vrf>default</vrf>
  <local-as>124</local-as>
  <always-compare-med>true</always-compare-med>
  <compare-med-empty-aspath>true</compare-med-empty-aspath>
  <med-missing-as-worst>true</med-missing-as-worst>
  <as-path-ignore>true</as-path-ignore>
  <compare-routerid>true</compare-routerid>
  <install-igp-cost>true</install-igp-cost>
  <cluster-id
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/cluster-id">
    <id>122</id>
  </cluster-id>
  <default-local-preference>100</default-local-preference>
  <distance
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/distance">
    <ext-route-distance>20</ext-route-distance>
    <int-route-distance>25</int-route-distance>
    <lcl-route-distance>22</lcl-route-distance>
  </distance>
  <capability
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/capability">
    <as4-enable>true</as4-enable>
  </capability>
  <maxas-limit
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/maxas-limit">
```

```

    <in
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/maxas-limit/in">
    <num-as-in-path>250</num-as-in-path>
    </in>
</maxas-limit>
<enforce-first-as>true</enforce-first-as>
<fast-external-fallover>true</fast-external-fallover>
<timers
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/timers">
    <keep-alive>65</keep-alive>
    <hold-time>170</hold-time>
</timers>
<log-dampening-debug>true</log-dampening-debug>
<confederation
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/confederation">
    <identifier>20000</identifier>
    <peers>100 120 130 140 1200 2300 5600 40000</peers>
</confederation>
<bfd xmlns="urn:brocade.com:mgmt:brocade-bgp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/122/router/bgp/bfd">
    <holdover-interval>10</holdover-interval>
    <interval xmlns="urn:brocade.com:mgmt:brocade-bfd"
y:self="/rest/config/running/rbridge-id/1/router/bgp/bfd/interval">
        <min-tx>75</min-tx>
        <min-rx>80</min-rx>
        <multiplier>3</multiplier>
    </interval>
</bfd>
<neighbor
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/neighbor/INTERNAL
">
    <address>INTERNAL</address>
</neighbor>
<neighbor
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/neighbor/PeerGroup1
">
    <address>PeerGroup1</address>
</neighbor>
<neighbor xmlns="urn:brocade.com:mgmt:brocade-bgp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor">
    <neighbor-peer-grp
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-peer-grp/
peer1">
        <address>peer1</address>
        <bfd
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-peer-grp/
peer1/bfd">
            <holdover-interval>10</holdover-interval>
            <interval xmlns="urn:brocade.com:mgmt:brocade-bfd"
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-peer-grp/
peer1/bfd/interval">
                <min-tx>70</min-tx>
                <min-rx>60</min-rx>
                <multiplier>10</multiplier>
            </interval>
        </bfd>
    </neighbor-peer-grp>

```

## 4 Configuration APIs

```
<neighbor-ipv6-addr
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-ipv6-addr
/2004:384d::21:22">
  <address>2004:384d::21:22</address>
  <bfd
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-ipv6-addr
/2004:384d::21:22/bfd">
    <holdover-interval>25</holdover-interval>
    <interval xmlns="urn:brocade.com:mgmt:brocade-bfd"
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-ipv6-addr
/2004:384d::21:22/bfd/interval">
      <min-tx>60</min-tx>
      <min-rx>60</min-rx>
      <multiplier>40</multiplier>
    </interval>
  </bfd>
</neighbor-ipv6-addr>
<neighbor-addr xmlns="urn:brocade.com:mgmt:brocade-bgp"
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-addr/1.1.
1.1">
  <address>1.1.1.1</address>
  <bfd
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-addr/1.1.
1.1/bfd">
    <holdover-interval>20</holdover-interval>
    <interval xmlns="urn:brocade.com:mgmt:brocade-bfd"
y:self="/rest/config/running/rbridge-id/1/router/bgp/neighbor/neighbor-addr/1.1.
1.1/bfd/interval">
      <min-tx>5000</min-tx>
      <min-rx>3000</min-rx>
      <multiplier>4</multiplier>
    </interval>
  </bfd>
</neighbor-addr>
</neighbor>
<neighbor
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/neighbor/VCS_8192
">
  <address>VCS_8192</address>
  </neighbor>
  <address-family
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family">
    <ipv4
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4">
      <unicast
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast">
        <bgp- redistribute-internal>true</bgp- redistribute-internal>
        <redistribute
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/redistribute">
          <connected
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/redistribute/connected">
            <redistribute-connected>true</redistribute-connected>
            <metric>23</metric>
          </connected>
```

```

        <ospf
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/redistribute/ospf">
    <redistribute-ospf>true</redistribute-ospf>
    <match
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/redistribute/ospf/match"/>
        <metric>26</metric>
    </ospf>
    <static
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/redistribute/static">
        <redistribute-static>true</redistribute-static>
        <metric>30</metric>
    </static>
    </redistribute>
    <aggregate-address
y:self="/rest/config/running/rbridge-id/54/router/bgp/default/address-family/ipv
4/unicast/aggregate-address/%2210.11.12.0/24%22">
        <aggregate-ip-prefix>10.11.12.0/24</aggregate-ip-prefix>
        <advertise-map>map2</advertise-map>
        <as-set>true</as-set>
        <attribute-map>map2</attribute-map>
        <summary-only>true</summary-only>
        <suppress-map>map1</suppress-map>
    </aggregate-address>
    <neighbor
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/neighbor/INTERNAL">
        <address>INTERNAL</address>
    </neighbor>
    <neighbor
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/neighbor/10.11.132.7">
        <address>10.11.132.7</address>
    </neighbor>
    <network
y:self="/rest/config/running/rbridge-id/54/router/bgp/default/address-family/ipv
4/unicast/network/%2210.11.12.0/24%22">
        <network-ipv4-address>10.11.12.0/24</network-ipv4-address>
        <weight>100</weight>
        <backdoor>true</backdoor>
        <route-map>map1</route-map>
    </network>
    <static-network
y:self="/rest/config/running/rbridge-id/54/router/bgp/default/address-family/ipv
4/unicast/static-network/%2210.10.12.0/24%22">
        <static-network-address>10.10.12.0/24</static-network-address>
        <distance>10</distance>
    </static-network>
    <maximum-paths
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/maximum-paths">
        <ebgp>2</ebgp>
        <ibgp>3</ibgp>
        <use-load-sharing>true</use-load-sharing>
    </maximum-paths>
    <multipath
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/multipath">

```

## 4 Configuration APIs

```
        <ibgp>true</ibgp>
        <multi-as>true</multi-as>
    </multipath>
    <always-propagate>true</always-propagate>
    <default-information-originate>true</default-information-originate>
    <rib-route-limit>2000</rib-route-limit>
    <dampening
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/dampening">
        <half-time>20</half-time>
        <reuse-value>755</reuse-value>
        <start-suppress-time>2100</start-suppress-time>
        <max-suppress-time>45</max-suppress-time>
    </dampening>
    <default-metric>1</default-metric>
    <table-map
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/table-map"/>
        <update-time>10</update-time>
        <graceful-restart
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v4/unicast/graceful-restart">
            <restart-time>250</restart-time>
            <purge-time>200</purge-time>
            <stale-routes-time>300</stale-routes-time>
        </graceful-restart>
        <vrf
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv4/unicast
/vrf/red">
            <vrf-name>red</vrf-name>
            <redistribute
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv4/unicast
/vrf/red/redistribute">
                <bgp
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv4/unicast
/vrf/red/redistribute/bgp">
                    <metric>250</metric>
                    <route-map>map1</route-map>
                </bgp>
            </redistribute>
        </vrf>
    </unicast>
</ipv4>
<ipv6
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6">
    <unicast
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast">
        <bgp-redistribute-internal>true</bgp-redistribute-internal>
        <redistribute
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/redistribute">
            <connected
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/redistribute/connected">
                <redistribute-connected>true</redistribute-connected>
                <metric>23</metric>
            </connected>
```



```

        <ospf
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/redistribute/ospf">
    <redistribute-ospf>true</redistribute-ospf>
    <match
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/redistribute/ospf/match"/>
        <metric>34</metric>
    </ospf>
    <static
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/redistribute/static">
        <redistribute-static>true</redistribute-static>
        <metric>45</metric>
        <route-map>redist107_1</route-map>
    </static>
</redistribute>
<aggregate-address
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/aggregate-address/%22fd80:122:122:122::/64%22">
    <aggregate-ip-prefix>fd80:122:122:122::/64</aggregate-ip-prefix>
</aggregate-address>
<network
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/network/%22131::1/128%22">
    <network-ipv6-address>131::1/128</network-ipv6-address>
</network>
<network
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/network/%22fd80:122:122:122:105:105:0:122/128%22">
    <network-ipv6-address>fd80:122:122:122:105:105:0:122/128</network-ipv6
-address>
</network>
<neighbor
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/neighbor/vcs_2122">
    <address>vcs_2122</address>
</neighbor>
<neighbor
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/neighbor/VCS_8192_rr">
    <address>VCS_8192_rr</address>
</neighbor>
<neighbor
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/neighbor/fd80:2001:2040::40">
    <address>fd80:2001:2040::40</address>
</neighbor>
<maximum-paths
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/maximum-paths">
    <ebgp>2</ebgp>
    <ibgp>2</ibgp>
    <use-load-sharing>true</use-load-sharing>
</maximum-paths>
<multipath
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/multipath"/>
    <always-propagate>true</always-propagate>
    <default-information-originate>true</default-information-originate>

```

```

        <rib-route-limit>1000</rib-route-limit>
        <dampening
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/dampening">
        <half-time>30</half-time>
        <reuse-value>1100</reuse-value>
        <start-suppress-time>2100</start-suppress-time>
        <max-suppress-time>45</max-suppress-time>
        </dampening>
        <default-metric>2</default-metric>
        <table-map
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/table-map"/>
        <update-time>10</update-time>
        <graceful-restart
y:self="/rest/config/running/rbridge-id/122/router/bgp/default/address-family/ip
v6/unicast/graceful-restart">
        <restart-time>1400</restart-time>
        <purge-time>1200</purge-time>
        <stale-routes-time>1600</stale-routes-time>
        </graceful-restart>
        <vrf
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/vrf/vrf1">
        <vrf-name>vrf1</vrf-name>
        <redistribute
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/vrf/vrf1/redistribute">
        <bgp
y:self="/rest/config/running/rbridge-id/1/router/bgp/address-family/ipv6/unicast
/vrf/vrf1/redistribute/bgp">
        <metric>500</metric>
        <route-map>map2</route-map>
        </bgp>
        </redistribute>
        </vrf>
        </unicast>
        </ipv6>
        </address-family>
</bgp>

```

### History

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to add the new URI <code>&lt;base_URI&gt;/config/running/rbridge-id/{rbridge-number}/router/bgp/vrf/{vrf-name}/bfd</code> . The API call was modified to include the parameters <code>metric</code> and <code>route-map</code> under <code>bgp</code> . The API call was modified to include the parameter <code>vrf-name</code> under <code>address-family/ipv4/unicast</code> .

## rbridge-id/{rbridge-number}/router/ospf

Configures, modifies, or retrieves Open Shortest Path First (OSPF) configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/router/ospf/vrf/{vrf-name}	Open Shortest Path First (OSPF)

### Parameters

Name	Description
vrf	VRF name
database-overflow-interval	Set how often the router checks whether OSPF external LSDB overflow is eliminated
vrf-lite-capability	Disables the down-bit (DN bit) that is set when routes are redistributed from multiprotocol BGP (MP-BGP) to OSPF
always	Always advertise default route
metric	Metric for default route
metric-type	Set Type 1 or Type 2
route-map	Route-map reference
default-metric	Set OSPF default metric
external-lsdb-limit	Set maximum number of external LSAs
all	Logging everything
neighbor-addr	Neighbor address
area-id	Area ID
ref-bandwidth	Set OSPF auto-cost reference-bandwidth
use-active-ports	Dynamic change of BW will reflect cost change
route-type	<ul style="list-style-type: none"> <li>external - External type 5 and type 7 routes</li> <li>inter-area - inter-area routes</li> <li>intra-area - Intra-area routes</li> </ul>
IN	Apply filter for incoming Routes
external-lsa-val	Replace Metric in External LSA with maximum metric value
summary-lsa-val	Replace Metric in Summary LSA with maximum metric value
ptp	Advertise maximum metric in Router LSA for ptp links
stub	Advertise maximum metric in Router LSA for stub links
transit	Advertise maximum metric in Router LSA for transit links
sum-address	The IP summary address
sum-address-mask	The IP summary address mask
lsa-group-pacing	OSPF LSA group pacing timer

Name	Description
<i>init-delay</i>	Initial delay (msec) between receiving a change to SPF calculation
<i>hold-time</i>	Hold time (msec) between two SPF calculations
<i>max-hold-time</i>	Maximum hold time (msec) between two SPF calculations
<i>graceful-restart-enable</i>	Enable graceful restart
<i>helper-disable</i>	Disable Helper Mode
<i>restart-time</i>	Set the maximum restart wait time advertised to neighbors
<i>maximum-paths</i>	The maximum number of paths to a destination
<i>time</i>	Sets the time (in seconds) for which the specified links in Router LSAs are advertised
<i>external-lsa-val-onstartup</i>	External LSA value on startup
<i>summary-lsa-val-onstartup</i>	Summary LSA value on startup
<i>nonstop-routing</i>	Enables nonstop-routing (NSR)
<i>bfd-enable</i>	Enable BFD session
<i>holdover-interval</i>	Holdover interval in seconds

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/122/router/ospf/vrf/default-vrf
```

#### Request body

None

#### Response body

```
<ospf xmlns="urn:brocade.com:mgmt:brocade-ospf"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf">
  <vrf>default-vrf</vrf>
  <database-overflow-interval>1</database-overflow-interval>
  <vrf-lite-capability>true</vrf-lite-capability>
  <nonstop-routing>true</nonstop-routing>
  <default-information-originate
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/default-info
rmation-originate">
    <always>true</always>
    <metric>23</metric>
    <metric-type>type1</metric-type>
    <route-map>route1</route-map>
  </default-information-originate>
  <default-metric>11</default-metric>
  <external-lsdb-limit>14987</external-lsdb-limit>
  <log y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/log">
```

```

    <all>true</all>
  </log>
  <metric-type>type1</metric-type>
  <neighbor
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/neighbor/10.
12.34.87">
    <neighbor-addr>10.12.34.87</neighbor-addr>
  </neighbor>
  <redistribute
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/redistribute
">
    <connected
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/redistribute
/connected">
      <route-map>routel</route-map>
    </connected>
    <static
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/redistribute
/static">
      <route-map>routel</route-map>
    </static>
    <bgp
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/redistribute
/bgp">
      <route-map>routel</route-map>
    </bgp>
  </redistribute>
  <area
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/area/0.0.0.0
">
    <area-id>0.0.0.0</area-id>
  </area>
  <area
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/area/131">
    <area-id>131</area-id>
  </area>
  <auto-cost
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/auto-cost">
    <reference-bandwidth
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/auto-cost/re
ference-bandwidth">
      <ref-bandwidth>110</ref-bandwidth>
      <use-active-ports>true</use-active-ports>
    </reference-bandwidth>
  </auto-cost>
  <distance
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/distance/ext
ernal">
    <route-type>external</route-type>
  </distance>
  <distance
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/distance/int
er-area">
    <route-type>inter-area</route-type>
  </distance>
  <distance
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/distance/int
ra-area">
    <route-type>intra-area</route-type>
  </distance>

```

## 4 Configuration APIs

```
<distributed-list
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/distributed-list">
  <route-map
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/distributed-list/route-map">
    <route-map>route1</route-map>
    <in>true</in>
  </route-map>
</distributed-list>
<max-metric
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/max-metric">
  <router-lsa
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/max-metric/router-lsa">
    <external-lsa
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/max-metric/router-lsa/external-lsa">
      <external-lsa-val>1234343</external-lsa-val>
    </external-lsa>
    <summary-lsa
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/max-metric/router-lsa/summary-lsa">
      <summary-lsa-val>1223324</summary-lsa-val>
    </summary-lsa>
    <link
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/max-metric/router-lsa/link">
      <ptp>true</ptp>
      <stub>true</stub>
      <transit>true</transit>
    </link>
    <on-startup
y:self="/rest/config/running/rbridge-id/54/router/ospf/default-vrf/max-metric/router-lsa/on-startup">
      <time>10</time>
      <external-lsa
y:self="/rest/config/running/rbridge-id/54/router/ospf/default-vrf/max-metric/router-lsa/on-startup/external-lsa">
        <external-lsa-val-onstartup>100</external-lsa-val-onstartup>
      </external-lsa>
      <summary-lsa
y:self="/rest/config/running/rbridge-id/54/router/ospf/default-vrf/max-metric/router-lsa/on-startup/summary-lsa">
        <summary-lsa-val-onstartup>199</summary-lsa-val-onstartup>
      </summary-lsa>
      <link
y:self="/rest/config/running/rbridge-id/54/router/ospf/default-vrf/max-metric/router-lsa/on-startup/link">
        <ptp>true</ptp>
        <stub>true</stub>
        <transit>true</transit>
      </link>
    </on-startup>
  </router-lsa>
</max-metric>
<summary-address
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/summary-address/10.1.0.0%2C255.255.0.0">
  <sum-address>10.1.0.0</sum-address>
```

```

        <sum-address-mask>255.255.0.0</sum-address-mask>
    </summary-address>
    <timers
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/timers">
        <lsa-group-pacing>250</lsa-group-pacing>
        <throttle
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/timers/throt
tle">
            <spf
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/timers/throt
tle/spf">
                <init-delay>23</init-delay>
                <hold-time>5500</hold-time>
                <max-hold-time>11000</max-hold-time>
            </spf>
        </throttle>
    </timers>
    <graceful-restart
y:self="/rest/config/running/rbridge-id/122/router/ospf/default-vrf/graceful-res
tart">
        <graceful-restart-enable>true</graceful-restart-enable>
        <helper-disable>true</helper-disable>
        <restart-time>125</restart-time>
    </graceful-restart>
    <bfd xmlns="urn:brocade.com:mgmt:brocade-ospf"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/router/ospf/default-vrf/bfd">
        <bfd-enable>true</bfd-enable>
        <holdover-interval>10</holdover-interval>
    </bfd>
    <maximum-paths>7</maximum-paths>
</ospf>

```

## History

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the new URI <base_URI>/config/running/rbridge-id/{rbridge-number}/router/ospf/vrf/{vrf-name}/bfd.

## rbridge-id/{rbridge-number}/secpolicy

Configures, modifies, or retrieves security policy-related configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/secpolicy	Security policy-related configuration
<base_URI>/config/running/rbridge-id/{rbridge-number}/secpolicy/defined-policy	Defined policy set
<base_URI>/config/running/rbridge-id/{rbridge-number}/secpolicy/active-policy	Active policy set

### Parameters

Name	Description
<i>policy</i>	Select the security policy type
<i>member</i>	List of defined members

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/54/secpolicy
```

#### Request body

None

#### Response body

```
<secpolicy xmlns="urn:brocade.com:mgmt:brocade-fc-auth"
y:self="/rest/config/running/rbridge-id/54/secpolicy">
  <defined-policy
y:self="/rest/config/running/rbridge-id/54/secpolicy/defined-policy">
    <policies
y:self="/rest/config/running/rbridge-id/54/secpolicy/defined-policy/policies/SCC
_POLICY">
      <policy>SCC_POLICY</policy>
      <member-entry
y:self="/rest/config/running/rbridge-id/54/secpolicy/defined-policy/policies/SCC
_POLICY/member-entry/10:00:00:05:1e:00:69:01">
        <member>10:00:00:05:1e:00:69:01</member>
      </member-entry>
```



```
    <member-entry
y:self="/rest/config/running/rbridge-id/54/secpolicy/defined-policy/policies/SCC
_POLICY/member-entry/2f:00:00:05:1e:80:31:4f">
    <member>2f:00:00:05:1e:80:31:4f</member>
</member-entry>
    <member-entry
y:self="/rest/config/running/rbridge-id/54/secpolicy/defined-policy/policies/SCC
_POLICY/member-entry/10:00:00:05:1E:CD:52:6A">
    <member>10:00:00:05:1E:CD:52:6A</member>
</member-entry>
    <member-entry
y:self="/rest/config/running/rbridge-id/54/secpolicy/defined-policy/policies/SCC
_POLICY/member-entry/10:00:00:05:33:65:2B:4C">
    <member>10:00:00:05:33:65:2B:4C</member>
</member-entry>
</policies>
</defined-policy>
<active-policy
y:self="/rest/config/running/rbridge-id/54/secpolicy/active-policy"/>
</secpolicy>
```

## History

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/snmp-server

Configures, modifies, or retrieves SNMP server configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/snmp-server	SNMP server configuration
<base_URI>/config/running/rbridge-id/{rbridge-number}/snmp-server/engineID	Holds local agents Engine ID
<base_URI>/config/running/rbridge-id/{rbridge-number}/snmp-server/v3host	Holds parameters used to send V3 traps and informs

### Parameters

Name	Description
<i>local</i>	Agent's (Local) engine ID
<i>hostip</i>	The host IP
<i>username</i>	The username associated with the host
<i>udp-port</i>	The UDP port
<i>severity-level</i>	The severity level

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/1/snmp-server
```

#### Request body

None

#### Response body

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/snmp-server">
  <engineID y:self="/rest/config/running/rbridge-id/1/snmp-server/engineID">
    <local>10:20:30:40:50:60:70:80:90:10:30:12</local>
  </engineID>
  <v3host
y:self="/rest/config/running/rbridge-id/1/snmp-server/v3host/1.1.1.1%2Ctestuser1">
    <hostip>1.1.1.1</hostip>
```

```
<username>testuser1</username>
<udp-port>4425</udp-port>
<severity-level>Info</severity-level>
<use-vrf>mgmt-vrf</use-vrf>
</v3host>
</snmp-server>
```

### *History*

Release version	History
5.0.0	The API call was introduced.
5.0.1a	The API call was modified to include the parameter <i>v3host</i> .
6.0.1	The API call was modified to include the parameter <i>use-vrf</i> .

## rbridge-id/{rbridge-number}/ssh

Configures, modifies, or retrieves SSH server configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/ssh	Configure SSH server
<base_URI>/config/running/rbridge-id/{rbridge-number}/ssh/server	Configure SSH server
<base_URI>/config/running/rbridge-id/{rbridge-number}/ssh/client	Configure SSH client

### Parameters

Name	Description
<i>key-exchange</i>	Modified configure key exchange
<i>rekey-interval</i>	Time interval for session rekeying
<i>shutdown</i>	Shut down SSH server
<i>protocol</i>	Protocol type
<i>cipher</i>	Configures ciphers
<i>mac</i>	MAC algorithm
<i>standby</i>	Configures standby SSH
<i>rsa</i>	RSA algorithm type
<i>ecdsa</i>	ECDSA algorithm type
<i>dsa</i>	DSA algorithm type

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/ssh
```

#### Request body

None

**Response body**

```

<ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/1/ssh">
  <server y:self="/rest/config/running/rbridge-id/1/ssh/server">
    <key-exchange
y:self="/rest/config/running/rbridge-id/1/ssh/server/key-exchange/dh-group-14">
      <protocol>dh-group-14</protocol>
    </key-exchange>
    <rekey-interval>960</rekey-interval>
    <cipher>non-cbc</cipher>
    <mac>hmac-sha1</mac>
    <standby y:self="/rest/config/running/rbridge-id/1/ssh/server/standby">
      <enable>true</enable>
    </standby>
    <key y:self="/rest/config/running/rbridge-id/1/ssh/server/key">
      <rsa>1024</rsa>
      <ecdsa>256</ecdsa>
      <dsa>true</dsa>
    </key>
  </server>
  <client y:self="/rest/config/running/rbridge-id/1/ssh/client">
    <cipher>non-cbc</cipher>
    <mac>hmac-sha1-96</mac>
    <key-exchange>dh-group-14</key-exchange>
  </client>
</ssh>

```

**History**

Release version	History
5.0.0	The API call was introduced.
5.0.1a	The API call was modified to include the parameter <i>cipher</i> , <i>standby</i> , <i>client</i> .
6.0.0	The API call was modified to include the parameter <i>rsa</i> , <i>ecdsa</i> and <i>dsa</i> .
6.0.1	The API call was modified to include the paramter <i>cipher</i> and <i>mac</i> under <i>server</i> and <i>client</i> .

## rbridge-id/{rbridge-number}/switch-attributes

Configures, modifies, or retrieves switch attributes configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/switch-attributes	Switch attributes configurations

### Parameters

Name	Description
chassis-name	Chassis name
host-name	Host name

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/switch-attributes
```

#### Request body

None

#### Response body

```
<switch-attributes xmlns="urn:brocade.com:mgmt:brocade-rbridge"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/switch-attributes">
  <chassis-name>VDX8770-4</chassis-name>
  <host-name>sw0</host-name>
</switch-attributes>
```

### History

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/system-monitor

Configures, modifies, or retrieves FRU threshold and alert setting.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor	FRU threshold and alert setting
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor/fan	Configure threshold and alert setting for component: FAN
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor/power	Configure threshold and alert setting for component: POWER SUPPLY
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor/temp	Configure threshold and alert setting for component: TEMPERATURE SENSOR
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor/cid-card	Configure threshold and alert setting for component: CIS-CARD
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor/sfp	Configure threshold and alert setting for component: SFP
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor/compact-flash	Configure threshold component: COMPACT-FLASH
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor/mm	Configure threshold setting for component: MM
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor/linecard	Configure threshold and alert setting for component: LINECARD
<base_URI>/config/running/rbridge-id/{rbridge-number}/system-monitor/sfm	Configure threshold setting for component: SFM

### Parameters

Name	Description
<i>action</i>	Action that may be taken when component
<i>state</i>	Supported states for component
<i>down-threshold</i>	Minimum number contributing to DOWN state of component
<i>marginal-threshold</i>	Minimum number contributing to MARGINAL state of component

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/system-monitor
```

### Request body

None

### Response body

```
<system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/system-monitor">
  <fan y:self="/rest/config/running/rbridge-id/195/system-monitor/fan">
    <threshold
y:self="/rest/config/running/rbridge-id/195/system-monitor/fan/threshold">
      <marginal-threshold>1</marginal-threshold>
      <down-threshold>2</down-threshold>
    </threshold>
    <alert
y:self="/rest/config/running/rbridge-id/195/system-monitor/fan/alert">
      <state>removed</state>
      <action>raslog</action>
    </alert>
  </fan>
  <power y:self="/rest/config/running/rbridge-id/195/system-monitor/power">
    <threshold
y:self="/rest/config/running/rbridge-id/195/system-monitor/power/threshold">
      <marginal-threshold>3</marginal-threshold>
      <down-threshold>4</down-threshold>
    </threshold>
    <alert
y:self="/rest/config/running/rbridge-id/195/system-monitor/power/alert">
      <state>removed</state>
      <action>raslog</action>
    </alert>
  </power>
  <temp y:self="/rest/config/running/rbridge-id/195/system-monitor/temp">
    <threshold
y:self="/rest/config/running/rbridge-id/195/system-monitor/temp/threshold">
      <marginal-threshold>1</marginal-threshold>
      <down-threshold>2</down-threshold>
    </threshold>
  </temp>
  <cid-card
y:self="/rest/config/running/rbridge-id/195/system-monitor/cid-card">
    <threshold
y:self="/rest/config/running/rbridge-id/195/system-monitor/cid-card/threshold">
      <marginal-threshold>1</marginal-threshold>
      <down-threshold>0</down-threshold>
    </threshold>
    <alert
y:self="/rest/config/running/rbridge-id/195/system-monitor/cid-card/alert">
      <state>removed</state>
      <action>raslog</action>
    </alert>
  </cid-card>
  <sfp y:self="/rest/config/running/rbridge-id/195/system-monitor/sfp">
    <alert
y:self="/rest/config/running/rbridge-id/195/system-monitor/sfp/alert">
      <state>none</state>
      <action>none</action>
    </alert>
  </sfp>
```



```

    <compact-flash
y:self="/rest/config/running/rbridge-id/195/system-monitor/compact-flash">
    <threshold
y:self="/rest/config/running/rbridge-id/195/system-monitor/compact-flash/thresho
ld">
        <marginal-threshold>1</marginal-threshold>
        <down-threshold>0</down-threshold>
    </threshold>
</compact-flash>
<MM y:self="/rest/config/running/rbridge-id/195/system-monitor/MM">
    <threshold
y:self="/rest/config/running/rbridge-id/195/system-monitor/MM/threshold">
        <marginal-threshold>1</marginal-threshold>
        <down-threshold>0</down-threshold>
    </threshold>
</MM>
<LineCard
y:self="/rest/config/running/rbridge-id/195/system-monitor/LineCard">
    <threshold
y:self="/rest/config/running/rbridge-id/195/system-monitor/LineCard/threshold">
        <marginal-threshold>1</marginal-threshold>
        <down-threshold>0</down-threshold>
    </threshold>
    <alert
y:self="/rest/config/running/rbridge-id/195/system-monitor/LineCard/alert">
        <state>removed</state>
        <action>raslog</action>
    </alert>
</LineCard>
<SFM y:self="/rest/config/running/rbridge-id/195/system-monitor/SFM">
    <threshold
y:self="/rest/config/running/rbridge-id/195/system-monitor/SFM/threshold">
        <marginal-threshold>1</marginal-threshold>
        <down-threshold>0</down-threshold>
    </threshold>
</SFM>
</system-monitor>

```

## History

Release version	History
5.0.0	The API call was introduced.

## rbridge-id/{rbridge-number}/telnet

Configures, modifies, or retrieves the Telnet server.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/telnet	Configure Telnet server
<base_URI>/config/running/rbridge-id/{rbridge-number}/telnet/server	Configure telnet server

### Parameters

Name	Description
shutdown	Shut down Telnet server
enable	Enable standby Telnet

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/telnet
```

#### Request body

None

#### Response body

```
<telnet xmlns="urn:brocade.com:mgmt:brocade-sec-services"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/telnet">
  <server y:self="/rest/config/running/rbridge-id/195/telnet/server">
    <shutdown>true</shutdown>
    <standby y:self="/rest/config/running/rbridge-id/1/telnet/server/standby">
      <enable>true</enable>
    </standby>
  </server>
</telnet>
```

## *History*

Release version	History
5.0.0	The API call was introduced.
6.0.0	The API was modified to include the parameter <i>enable</i> .

## rbridge-id/{rbridge-number}/threshold-monitor

Configures, modifies, or retrieves class-monitoring threshold and alert setting.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/threshold-monitor	Configure class-monitoring threshold and alert setting
<base_URI>/config/running/rbridge-id/{rbridge-number}/threshold-monitor/sfp	Monitor SFP class
<base_URI>/config/running/rbridge-id/{rbridge-number}/threshold-monitor/security	Monitor security class
<base_URI>/config/running/rbridge-id/{rbridge-number}/threshold-monitor/cpu	Configure setting for component: CPU
<base_URI>/config/running/rbridge-id/{rbridge-number}/threshold-monitor/memory	Configure setting for component: MEMORY
<base_URI>/config/running/rbridge-id/{rbridge-number}/threshold-monitor/interface	Monitor interface class

### Parameters

Name	Description
<i>actions</i>	none - No action will be taken raslog - RASLOG will be sent
<i>limit</i>	Percent threshold usage for component:CPU
<i>poll</i>	Polling interval
<i>retry</i>	Number of retries
<i>high-limit</i>	Percent high threshold usage for component:MEMORY
<i>limit</i>	Percent threshold usage for component:MEMORY
<i>low-limit</i>	Percent low threshold usage for component:MEMORY
<i>apply</i>	Apply configuration
<i>pause</i>	Pause monitoring
<i>policy_name</i>	Only custom policy can be configured
<i>type</i>	Type all speed Ethernet interfaces
<i>area</i>	<ul style="list-style-type: none"> <li>• CRCAlignErrors - Frames received with CRC and/or Align Errors</li> <li>• IFG - Number of times Inter Frame Gap was violated</li> <li>• MissingTerminationCharacter - Frames that terminated by anything other than the Terminate character.</li> <li>• SymbolErrors - Number of words received as unknown symbol</li> </ul>
<i>buffer</i>	Buffer threshold value
<i>high-threshold</i>	High threshold value
<i>low-threshold</i>	Low threshold value

Name	Description
<i>timebase</i>	Configure timebase for monitoring
<i>highthresh-action</i>	Sets a high threshold action
<i>lowthresh-action</i>	Sets a low threshold action
<i>area</i>	Security <ul style="list-style-type: none"> <li>login-violation - Security Area login violation</li> <li>telnet-violation - Security Area telnet violation</li> </ul>
<i>type</i>	sfp <ul style="list-style-type: none"> <li>1GLR - SFP type 1GLR</li> <li>1GSR - SFP type 1GSR</li> <li>10GLR - SFP type 10GLR</li> <li>10GSR - SFP type 10GSR</li> <li>10GUSR - SFP type 10GUSR</li> <li>100GSR - SFP type 100GSR</li> <li>QSFP - SFP type QSFP</li> </ul>
<i>area</i>	sfp <ul style="list-style-type: none"> <li>Current - SFP Area Current</li> <li>RXP - SFP Area RXP</li> <li>TXP - SFP Area TXP</li> <li>Temperature - SFP Area Temperature</li> <li>Voltage - SFP Area Voltage</li> </ul>

### *Usage guidelines*

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### *Examples*

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/threshold-monitor
```

#### Request body

None

#### Response body

```
<threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/threshold-monitor">
  <sfp y:self="/rest/config/running/rbridge-id/195/threshold-monitor/sfp">
    <apply>custom</apply>
    <pause>true</pause>
    <policy
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/sfp/policy/custom"
>
      <policy_name>custom</policy_name>
      <area
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/sfp/policy/custom/
area/" />
```

## 4 Configuration APIs

```
        <area
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/sfp/policy/custom/
area/1GLR%2CCurrent">
    <type>1GLR</type>
    <area>Current</area>
    <threshold
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/sfp/policy/custom/
area/1GLR%2CCurrent/threshold">
        <high-threshold>45</high-threshold>
        <low-threshold>1</low-threshold>
        <buffer>0</buffer>
    </threshold>
    <alert
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/sfp/policy/custom/
area/1GLR%2CCurrent/alert">
        <above
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/sfp/policy/custom/
area/1GLR%2CCurrent/alert/above">
            <highthresh-action>email</highthresh-action>
        </above>
        <below
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/sfp/policy/custom/
area/1GLR%2CCurrent/alert/below">
            <highthresh-action>none</highthresh-action>
            <lowthresh-action>raslog</lowthresh-action>
        </below>
    </alert>
    </area>
</policy>
</sfp>
<security
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/security">
    <apply>custom</apply>
    <pause>true</pause>
    <policy
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/security/policy/cu
stom">
        <sec_policy_name>custom</sec_policy_name>
        <area
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/security/policy/cu
stom/area/" />
            <area
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/security/policy/cu
stom/area/login-violation">
                <area>login-violation</area>
                <timebase>minute</timebase>
                <threshold
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/security/policy/cu
stom/area/login-violation/threshold">
                    <high-threshold>2</high-threshold>
                    <low-threshold>1</low-threshold>
                    <buffer>0</buffer>
                </threshold>
                <alert
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/security/policy/cu
stom/area/login-violation/alert">
                    <above
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/security/policy/cu
stom/area/login-violation/alert/above">
                        <highthresh-action>all</highthresh-action>
```

```

        </above>
        <below
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/security/policy/cu
stom/area/login-violation/alert/below">
        <highthresh-action>none</highthresh-action>
        <lowthresh-action>none</lowthresh-action>
        </below>
        </alert>
    </area>
</policy>
</security>
<Cpu y:self="/rest/config/running/rbridge-id/195/threshold-monitor/Cpu">
    <poll>125</poll>
    <retry>5</retry>
    <limit>50</limit>
</Cpu>
<Memory y:self="/rest/config/running/rbridge-id/195/threshold-monitor/Memory">
    <poll>125</poll>
    <retry>4</retry>
    <limit>40</limit>
    <high-limit>45</high-limit>
    <low-limit>35</low-limit>
</Memory>
<interface
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/interface">
    <apply>custom</apply>
    <pause>true</pause>
    <policy
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/interface/policy/c
ustom">
        <policy_name>custom</policy_name>
        <area
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/interface/policy/c
ustom/area/" />
            <area
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/interface/policy/c
ustom/area/Ethernet%2CSymbolErrors">
                <type>Ethernet</type>
                <area>SymbolErrors</area>
                <threshold
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/interface/policy/c
ustom/area/Ethernet%2CSymbolErrors/threshold">
                    <timebase>minute</timebase>
                    <high-threshold>5</high-threshold>
                    <low-threshold>0</low-threshold>
                    <buffer>0</buffer>
                </threshold>
                <alert
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/interface/policy/c
ustom/area/Ethernet%2CSymbolErrors/alert">
                    <above
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/interface/policy/c
ustom/area/Ethernet%2CSymbolErrors/alert/above">
                        <highthresh-action>all</highthresh-action>
                        <lowthresh-action>email</lowthresh-action>
                    </above>
                    <below
y:self="/rest/config/running/rbridge-id/195/threshold-monitor/interface/policy/c
ustom/area/Ethernet%2CSymbolErrors/alert/below">
                        <highthresh-action>none</highthresh-action>

```

## 4 Configuration APIs

```
        <lowthresh-action>none</lowthresh-action>
    </below>
</alert>
</area>
</policy>
</interface>
</threshold-monitor>
```

### *History*

Release version	History
5.0.0	The API call was introduced.



## rbridge-id/{rbridge-number}/vrf

Configures, modifies, or retrieves VRF configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/rbridge-id/{rbridge-number}/vrf	VRF configurations
<base_URI>/config/running/rbridge-id/{rbridge-number}/vrf/{vrf-name}/address-family	Enter address family command mode
<base_URI>/config/running/rbridge-id/{rbridge-number}/vrf/{vrf-name}/ip	VRF specific IP commands

### Parameters

Name	Description
vrf-name	Name of VRF
rd	VPN Route Distinguisher
arp-ip-address	IP address of the ARP entry
mac-address-value	MAC address
interfacename	Interface type
FortyGigabitEthernet	Interface name
src-vrf	Name of VRF
map	Route-map name
max-route	Maximum routes
static-route-dest	Destination IP address
static-route-next-hop	Next hop IP Address

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rbridge-id/195/vrf
```

#### Request body

None

**Response body**

```

<vrf xmlns="urn:brocade.com:mgmt:brocade-vrf"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf">
  <vrf-name>mgmt-vrf</vrf-name>
  <rd>1:2</rd>
  <address-family
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family">
    <ipv4
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv4">
      <unicast
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv4/uni
cast">
        <max-route>129</max-route>
        <ip xmlns="urn:brocade.com:mgmt:brocade-rtm"
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv4/uni
cast/ip">
          <route
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv4/uni
cast/ip/route">
            <static-route-nh
y:self="/rest/config/running/rbridge-id/54/vrf/mgmt-vrf/address-family/ipv4/unic
ast/ip/route/static-route-nh/%220.0.0.0/0%22%2C10.20.232.1">
              <static-route-dest>0.0.0.0/0</static-route-dest>
              <static-route-next-hop>10.20.232.1</static-route-next-hop>
            </static-route-nh>
          </route>
          <import
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv4/uni
cast/ip/import">
            <routes
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv4/uni
cast/ip/import/routes/mgmt-vrf%2Cmap1">
              <src-vrf>mgmt-vrf</src-vrf>
              <map>map1</map>
            </routes>
          </import>
        </ip>
        <arp xmlns="urn:brocade.com:mgmt:brocade-arp"
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv4/uni
cast/arp/10.25.24.27">
          <arp-ip-address>10.25.24.27</arp-ip-address>
          <mac-address-value>0011.2222.2233</mac-address-value>
          <interfacename>interface</interfacename>
          <FortyGigabitEthernet>195/2/2</FortyGigabitEthernet>
        </arp>
      </unicast>
    </ipv4>
  </address-family>
  <ipv6
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv6">
    <unicast
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv6/uni
cast">
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm"
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv6/uni
cast/ipv6">
        <route
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv6/uni
cast/ipv6/route"/>

```

```
        <import
y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/address-family/ipv6/uni
cast/ipv6/import"/>
        </ipv6>
        </unicast>
    </ipv6>
</address-family>
<ip y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/ip">
    <router-id>1.1.1.1</router-id>
</ip>
<ip y:self="/rest/config/running/rbridge-id/195/vrf/mgmt-vrf/ipv6">
    <router-id>1.2.1.1</router-id>
</ipv6>
</vrf>
```

### *History*

Release version	History
5.0.0	The API call was introduced.

## reserved-vlan

Configures, modifies, or retrieves the range of VLANs used for internal purposes.

### Resource URIs

URI	Description
<base_URI>/config/running/reserved-vlan	Sets the range of VLANs used for internal purposes

### Parameters

Name	Description
reserved-vlan-start	Start of range for reserved VLANs
reserved-vlan-end	End of range for reserved VLANs

### Usage guidelines

GET, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/reserved-vlan
```

#### Request body

None

#### Response body

```
<reserved-vlan xmlns="urn:brocade.com:mgmt:brocade-interface"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/reserved-vlan">
  <reserved-vlan-start>20</reserved-vlan-start>
  <reserved-vlan-end>40</reserved-vlan-end>
</reserved-vlan>
```

The following is an example of the PUT operation to configure the range of the reserved VLAN.

#### URI

```
http://host:80/rest/config/running/reserved-vlan
```

#### Request body

```
<reserved-vlan>
  <reserved-vlan-start>30</reserved-vlan-start>
  <reserved-vlan-end>50</reserved-vlan-end>
</reserved-vlan>
```

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## rmon

Configures, modifies, or retrieves Remote Monitoring Protocol (RMON) configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/rmon	Remote Monitoring Protocol (RMON)
<base_URI>/config/running/rmon/alarm	Remote Monitoring Protocol (RMON) alarm. Refer to <a href="#">rmon/alarm</a> for information
<base_URI>/config/running/rmon/event	Remote Monitoring Protocol (RMON) event. Refer to <a href="#">rmon/event</a> for information

### Parameters

Name	Description
alarm	Configures RMON alarm
event	Configures RMON event

### Usage guidelines

GET, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

`http://host:80/rest/config/running/rmon`

#### Request body

None

#### Response body

```
<rmon xmlns="urn:brocade.com:mgmt:brocade-rmon"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/rmon">
  <event y:self="/rest/config/running/rmon/event/25"/>
  <alarm-entry y:self="/rest/config/running/rmon/alarm-entry"/>
</rmon>
```

### History

Release version	History
5.0.0	The API call was introduced.

## rmon/alarm

Configures, modifies, or retrieves Remote Monitoring Protocol (RMON) alarm configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/rmon	Remote Monitoring Protocol (RMON)
<base_URI>/config/running/rmon/alarm	Remote Monitoring Protocol (RMON) alarm

### Parameters

Name	Description
<i>alarm-index</i>	Alarm Index
<i>snmp-oid</i>	Sampling object SNMP OID
<i>alarm-interval</i>	Alarm sample interval
<i>alarm-sample</i>	<ul style="list-style-type: none"> <li>absolute - Sample type absolute</li> <li>delta - Sample type delta</li> </ul>
<i>alarm-rising-threshold</i>	Alarm rising threshold
<i>alarm-rising-event-index</i>	Event for rising alarm
<i>alarm-falling-threshold</i>	Alarm falling threshold
<i>alarm-falling-event-index</i>	Event for falling alarm
<i>alarm-owner</i>	Owner identity

### Usage guidelines

GET, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rmon/alarm
```

#### Request body

None

#### Response body

```
<alarm-entry>
  <alarm-index>5</alarm-index>
  <snmp-oid>1.3.6.1.2.1.16.1.1.1.5.65535</snmp-oid>
  <alarm-interval>30</alarm-interval>
  <alarm-sample>absolute</alarm-sample>
  <alarm-rising-threshold>95</alarm-rising-threshold>
  <alarm-rising-event-index>27</alarm-rising-event-index>
  <alarm-falling-threshold>85</alarm-falling-threshold>
```

## 4 Configuration APIs

```
<alarm-falling-event-index>30</alarm-falling-event-index>  
<alarm-owner>john_smith</alarm-owner>  
</alarm-entry>
```

### *History*

Release version	History
5.0.0	The API call was introduced.



## rmon/event

Configures, modifies, or retrieves Remote Monitoring Protocol (RMON) event configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/rmon	Remote Monitoring Protocol (RMON)
<base_URI>/config/running/rmon/event	Remote Monitoring Protocol (RMON) event

### Parameters

Name	Description
<i>event-index</i>	Event Index
<i>description</i>	Event description
<i>log</i>	Log the event
<i>owner</i>	Owner identity

### Usage guidelines

GET, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/rmon/event
```

#### Request body

None

#### Response body

```
<event y:self="/rest/config/running/rmon/event/25">
  <event-index>25</event-index>
  <description>event1</description>
  <log>true</log>
  <owner>admin</owner>
</event>
```

The following is an example of the POST operation to add an event configuration.

#### URI

```
http://host:80/rest/config/running/rmon/event
```

#### Request body

```
<event-index>25</event-index>
description>event1</description>
<log>true</log>
```

## 4 Configuration APIs

```
<owner>admin</owner>
```

### Response body

None

The following is an example of the DELETE operation to remove an event configuration.

### URI

```
http://host:80/rest/config/running/rmon/event
```

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## role

Configures, modifies, or retrieves role configurations.

### *Resource URIs*

URI	Description
<base_URI>/config/running/role	Role configuration
<base_URI>/config/running/role/name	Name of the role

### *Parameters*

Name	Description
name	Name of the role
desc	Description of the role

### *Usage guidelines*

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### *Examples*

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/role
```

#### Request body

None

#### Response body

```
<role xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/role">
  <name y:self="/rest/config/running/role/name/admin">
    <name>admin</name>
    <desc>Administrator</desc>
  </name>
  <name y:self="/rest/config/running/role/name/admin2">
    <name>admin2</name>
  </name>
  <name y:self="/rest/config/running/role/name/trial">
    <name>trial</name>
  </name>
  <name y:self="/rest/config/running/role/name/user">
    <name>user</name>
    <desc>User</desc>
  </name>
</role>
```

The following is an example of the POST operation to add a role name and description.

## 4 Configuration APIs

### URI

`http://host:80/rest/config/running/role`

### Request body

```
<name>
  <name>user3</name>
  <desc>user</desc>
</name>
```

### Response body

None

The following is an example of the DELETE operation to remove a user.

### URI

`http://host:80/rest/config/running/role/name/user3`

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## router/fabric-virtual-gateway

Configures, modifies, or retrieves Fabric-Virtual-Gateway router configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/router/fabric-virtual-gateway	Fabric-Virtual-Gateway configurations
<base_URI>/config/running/router/fabric-virtual-gateway/address-family/ipv4	Fabric-Virtual-Gateway address-family IPv4 configurations
<base_URI>/config/running/router/fabric-virtual-gateway/address-family/ipv6	Fabric-Virtual-Gateway address-family IPv6 configurations

### Parameters

Name	Description
<i>enable</i>	Enables Fabric-Virtual-Gateway
<i>gateway-mac-address</i>	Sets the gateway MAC address for IPv4 or IPv6 configuration
<i>timer</i>	Sets gratuitous ARP timer
<i>accept-unicast-arp-request</i>	Accepts the unicast ARP request

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the router configuration details.

#### URI

```
http://host:80/rest/config/running/router
```

#### Request body

None

#### Response body

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/router">
  <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway"
y:self="/rest/config/running/router/fabric-virtual-gateway">
    <address-family
y:self="/rest/config/running/router/fabric-virtual-gateway/address-family">
      <ipv4
y:self="/rest/config/running/router/fabric-virtual-gateway/address-family/ipv4">
        <enable>true</enable>
        <gratuitous-arp
y:self="/rest/config/running/router/fabric-virtual-gateway/address-family/ipv4/g
ratuitous-arp">
          <timer>50</timer>
```

## 4 Configuration APIs

```
        </gratuitous-arp>
        <accept-unicast-arp-request>true</accept-unicast-arp-request>
        <gateway-mac-address>0011.0000.0000</gateway-mac-address>
    </ipv4>
    <ipv6
y:self="/rest/config/running/router/fabric-virtual-gateway/address-family/ipv6">
        <enable>true</enable>
        <gratuitous-arp
y:self="/rest/config/running/router/fabric-virtual-gateway/address-family/ipv6/n
d">
            <timer>70</timer>
            </gratuitous-arp>
            <gateway-mac-address>0011.2222.2233</gateway-mac-address>
        </ipv6>
    </address-family>
</fabric-virtual-gateway>
</router>
```

The following is an example of the POST operation to add an IPv4 address-family configuration.

### URI

`http://host:80/rest/config/running/router/fabric-virtual-gateway/address-family`

### Request body

```
<ipv4>
  <enable>true</enable>
  <gateway-mac-address>0011.2222.2233</gateway-mac-address>
</ipv4>
```

### Response body

None

The following is an example of the DELETE operation to remove a gateway MAC address from IPv6 address-family configuration.

### URI

`http://host:80/rest/config/running/router/fabric-virtual-gateway/address-family/ipv6/gateway-mac-address`

### Request body

None

### Response body

None

## *History*

Release version	History
5.0.1	The API call was introduced.
6.0.0	The API call was not supported.
6.0.1	The API call was supported.

## service

Configures, modifies, or retrieves password encryption services.

### *Resource URIs*

URI	Description
<base_URI>/config/running/service	Password encryption services

### *Parameters*

Name	Description
<i>password-encryption</i>	Encrypt all user account passwords

### *Usage guidelines*

GET, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### *Examples*

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/service
```

#### Request body

None

#### Response body

```
<service xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/service">
  <password-encryption>true</password-encryption>
</service>
```

The following is an example of the PUT operation to enable password encryption.

#### URI

```
http://host:80/rest/config/running/service
```

#### Request body

```
<service>
  <password-encryption>true</password-encryption>
</service>
```

#### Response body

None

The following is an example of the DELETE operation to disable password encryption.

## 4 Configuration APIs

### URI

`http://host:80/rest/config/running/service`

### Request body

None

### Response body

None

### *History*

---

Release version	History
5.0.0	The API call was introduced.

---



## sflow

Configures, modifies, or retrieves sFlow configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/sflow	sFlow configuration
<base_URI>/config/running/sflow/collector	sFlow collector. Refer to <a href="#">sflow/collector</a> for information

### Parameters

Name	Description
<i>enable</i>	Enable sFlow
<i>collector-ip-address</i>	The IPv4 or IPv6 address of the sFlow collector
<i>collector-port-number</i>	The port number used by the sFlow collector
<i>polling-interval</i>	Counter polling interval value
<i>sample-rate</i>	Sampling rate value in packets
<i>source-ip</i>	Configures the source IP address to use

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/sflow
```

#### Request body

None

#### Response body

```
<sflow xmlns="urn:brocade.com:mgmt:brocade-sflow"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/sflow">
  <enable>true</enable>
  <collector y:self="/rest/config/running/sflow/collector/10.20.38.100%2C6343"/>
  <source-ip>mm-ip</source-ip>
  <polling-interval>25</polling-interval>
  <sample-rate>32700</sample-rate>
</sflow>
```

The following is an example of the DELETE operation to change the polling interval from the sFlow configuration to the default value.

## 4 Configuration APIs

### URI

`http://host:80/rest/config/running/sflow/polling-interval/25`

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the parameter <i>source-ip</i> .

## sflow/collector

Configures, modifies, or retrieves sFlow collector configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/sflow/collector	sFlow collector

### Parameters

Name	Description
<i>enable</i>	Enable sFlow
<i>collector-ip-address</i>	The IPv4 or IPv6 address of the sFlow collector
<i>collector-port-number</i>	The port number used by the sFlow collector
<i>polling-interval</i>	Counter polling interval value
<i>sample-rate</i>	Sampling rate value in packets
<i>source-ip</i>	Configures the source IP address to use

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/sflow
```

#### Request body

None

#### Response body

```
<collector xmlns="urn:brocade.com:mgmt:brocade-sflow"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/sflow/collector/1.1.1.1%2C50%2Cmgmt-vrf">
  <collector-ip-address>1.1.1.1</collector-ip-address>
  <collector-port-number>50</collector-port-number>
  <use-vrf>mgmt-vrf</use-vrf>
</collector>
```

The following is an example of the POST operation to add the sFlow collector IP address.

#### URI

```
http://host:80/rest/config/running/sflow
```

## 4 Configuration APIs

### Request body

```
<collector>
  <collector-ip-address>10.20.38.100</collector-ip-address>
  <collector-port-number>6343</collector-port-number>
  <use-vrf>mgmt-vrf</use-vrf>
</collector>
```

### Response body

None

The following is an example of the DELETE operation to remove the sFlow configurations.

### URI

`http://host:80/rest/config/running/sflow/collector`

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the parameter <i>use-vrf</i> .

## sflow-profile

Configures, modifies, or retrieves sFlow configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/sflow-profile	sFlow profile configuration

### Parameters

Name	Description
<i>profile-name</i>	Specifies the sFlow profile name
<i>sampling-rate</i>	Specifies the sFlow profile sampling rate

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/sflow-profile
```

#### Request body

None

#### Response body

```
<sflow-profile xmlns="urn:brocade.com:mgmt:brocade-sflow"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/sflow-profile/slowprof1">
  <profile-name>slowprof1</profile-name>
  <sampling-rate>8</sampling-rate>
</sflow-profile>
```

### History

Release version	History
5.0.1	The API call was introduced.

## snmp-server

Configures, modifies, or retrieves SNMP server configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/snmp-server	SNMP server
<base_URI>/config/running/snmp-server/community	Holds community strings and groupname. Refer to <a href="#">snmp-server/community</a> for information
<base_URI>/config/running/snmp-server/context	Context to various instance mapping. Refer to <a href="#">snmp-server/context</a> for information
<base_URI>/config/running/snmp-server/enable	Enable or disable the traps. Refer to <a href="#">snmp-server/enable</a> for information
<base_URI>/config/running/snmp-server/host	Holds IP address. Refer to <a href="#">snmp-server/host</a> for information
<base_URI>/config/running/snmp-server/user	Holds user name, group name. Refer to <a href="#">snmp-server/user</a> for information
<base_URI>/config/running/snmp-server/v3host	Holds IP address, user name, severity level and port number. Refer to <a href="#">snmp-server/v3host</a> for information

### Parameters

Name	Description
<i>context</i>	Configures context to various instant mapping
<i>location</i>	Location of the system
<i>sys-descr</i>	The description of the system
<i>enable</i>	Enables or disables the traps
<i>community</i>	Configures community strings and groupname associated withthe community
<i>host</i>	Configures IP address, community string, version, port number used to send traps and severity level
<i>user</i>	Configures username, groupname, authand priv attributes associated with SNMP username
<i>v3host</i>	Configures IP address, user name, severity-level and port number used to send V3 traps

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/snmp-server
```

**Request body**

None

**Response body**

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/snmp-server">
  <context y:self="/rest/config/running/snmp-server/context/mycontext" />
  <contact>server1</contact>
  <location>first-floor</location>
  <sys-descr>VDX-Switch</sys-descr>
  <enable y:self="/rest/config/running/snmp-server/enable" />
  <community
y:self="/rest/config/running/snmp-server/community/ConvergedNetwork" />
  <host y:self="/rest/config/running/snmp-server/host/10.20.234.255%2Cprivate" />
  <user y:self="/rest/config/running/snmp-server/user/snmpadmin3" />
  <v3host
y:self="/rest/config/running/snmp-server/v3host/10.20.23.100%2Csnmpuser1" />
</snmp-server>
```

***History***

Release version	History
5.0.0	The API call was introduced.
5.0.1a	The API call was modified to include the parameter <i>groupname</i> .

## snmp-server/community

Configures, modifies, or retrieves SNMP community configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/snmp-server	SNMP server
<base_URI>/config/running/snmp-server/community	Holds community strings and groupname

### Parameters

Name	Description
community	Community string associated with traps
groupname	Group name associated with community sting

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

http://host:80/rest/config/running/snmp-server/community

#### Request body

None

#### Response body

```
<community y:self="/rest/config/running/snmp-server/community/ConvergedNetwork">
  <community>ConvergedNetwork</community>
  <groupname>user</groupname>
</community>
<community y:self="/rest/config/running/snmp-server/community/OrigEquipMfr">
  <community>OrigEquipMfr</community>
  <groupname>group1</groupname>
</community>
<community y:self="/rest/config/running/snmp-server/community/&quot;Secret
C0de&quot;">
  <community>"Secret C0de"</community>
  <groupname>group3</groupname>
</community>
<community y:self="/rest/config/running/snmp-server/community/common">
  <community>common</community>
</community>
<community y:self="/rest/config/running/snmp-server/community/private">
  <community>private</community>
  <groupname>admin</groupname>
```



```
</community>
<community y:self="/rest/config/running/snmp-server/community/public">
  <community>public</community>
  <groupname>user</groupname>
</community>
<community y:self="/rest/config/running/snmp-server/community/secretcode">
  <community>secretcode</community>
</community>
```

The following is an example of the POST operation to set the community and groupname of the SNMP server.

#### URI

http://host:80/rest/config/running/snmp-server

#### Request body

```
<community>
  <community>private</community>
  <groupname>group4</groupname>
</community>
```

#### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## snmp-server/context

Configures, modifies, or retrieves SNMP context configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/snmp-server	SNMP server
<base_URI>/config/running/snmp-server/context	Context to various instance mapping

### Parameters

Name	Description
<i>context-name</i>	Context name
<i>vrf-name</i>	Enables the specification of a variable VRF name that can be retrieved when an SNMP request is sent with the configured context name

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/snmp-server/context
```

#### Request body

None

#### Response body

```
<context y:self="/rest/config/running/snmp-server/context/mycontext">
  <context-name>mycontext</context-name>
  <vrf-name>myvrf</vrf-name>
</context>
```

### History

Release version	History
5.0.0	The API call was introduced.

## snmp-server/enable

Enables SNMP traps.

### Resource URIs

URI	Description
<base_URI>/config/running/snmp-server	SNMP server
<base_URI>/config/running/snmp-server/enable	Enable or disable the traps

### Parameters

Name	Description
trap-flag	Enables SNMP traps

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/snmp-server/enable
```

#### Request body

None

#### Response body

```
<enable y:self="/rest/config/running/snmp-server/enable">
  <trap y:self="/rest/config/running/snmp-server/enable/trap">
    <trap-flag>true</trap-flag>
  </trap>
</enable>
```

### History

Release version	History
5.0.0	The API call was introduced.

## snmp-server/host

Configures, modifies, or retrieves SNMP host configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/snmp-server	SNMP server
<base_URI>/config/running/snmp-server/host	Holds IP address

### Parameters

Name	Description
<i>ip</i>	IP address
<i>community</i>	Holds community strings and groupname
<i>udp-port</i>	Port number associated with trap recipient
<i>severity-level</i>	Severity level associated with the traps
<i>version</i>	Version used to send traps
<i>use-vrf</i>	VRF name. Support is provided for default-vrf and management VRF

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/snmp-server/host
```

#### Request body

None

#### Response body

```
<host xmlns="urn:brocade.com:mgmt:brocade-snmp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/snmp-server/host/1.1.1.1%2Ccomm1">
  <ip>1.1.1.1</ip>
  <community>comm1</community>
  <version>2</version>
  <udp-port>161</udp-port>
  <severity-level>Info</severity-level>
  <use-vrf>mgmt-vrf</use-vrf>
</host>
```

The following is an example of the POST operation to configure SNMP server host parameters.

**URI**

http://host:80/rest/config/running/snmp-server

**Request body**

```
<host>
  <ip>10.10.1.1</ip>
  <community>comm1</community>
  <version>1</version>
  <udp-port>156</udp-port>
  <severity-level>Info</severity-level>
  <use-vrf>default-vrf</use-vrf>
</host>
```

**Response body**

None

The following is an example of the DELETE operation to remove SNMP server host configurations.

**URI**

http://host:80/rest/config/running/snmp-server/host

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.
6.0.1	The API call was modified to include the parameter <i>use-vrf</i> .

## snmp-server/user

Configures, modifies, or retrieves SNMP user configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/snmp-server	SNMP server
<base_URI>/config/running/snmp-server/user	Holds user name, group name

### Parameters

Name	Description
<i>username</i>	SNMP user name
<i>groupname</i>	Group name associated with user name.
<i>auth</i>	Authorization protocol for user name
<i>auth-password</i>	Authorization password associated with user name
<i>noauth</i>	Removes authentication
<i>priv</i>	Privacy protocol for user name
<i>priv-password</i>	Privacy password associated with user name
<i>nopriv</i>	Removes privacy
<i>encrypted</i>	This flag is used to enter the auth/priv passwords as encrypted.

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/snmp-server/user
```

#### Request body

None

#### Response body

```
<user y:self="/rest/config/running/snmp-server/user/snmpadmin3">
  <username>snmpadmin3</username>
  <groupname>snmpadmin</groupname>
</user>
<user y:self="/rest/config/running/snmp-server/user/snmpuser1">
  <username>snmpuser1</username>
</user>
<user y:self="/rest/config/running/snmp-server/user/snmpuser2">
```

```
<username>snmpuser2</username>
</user>
<user y:self="/rest/config/running/snmp-server/user/snmpuser3">
  <username>snmpuser3</username>
  <auth>md5</auth>
  <auth-password>user</auth-password>
  <priv>DES</priv>
  <priv-password>user</priv-password>
  <encrypted>true</encrypted>
</user>
```

The following is an example of the DELETE operation to remove a user name from the SNMP server configuration.

**URI**

`http://host:80/rest/config/running/snmp-server/user/snmpuser3`

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## snmp-server/v3host

Configures, modifies, or retrieves SNMP v3host configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/snmp-server	SNMP server
<base_URI>/config/running/snmp-server/v3host	Holds IP address, user name, severity level and port number

### Parameters

Name	Description
hostip	Specifies the IP address of the host
engineid	Manager's remote engine ID
severity-level	Provides the ability to filter traps based on severity level on both the host and the SNMPv3 host
use-vrf	VRF name. Support is provided for default-vrf and management VRF

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/snmp-server/v3host
```

#### Request body

None

#### Response body

```
<v3host xmlns="urn:brocade.com:mgmt:brocade-snmp"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/snmp-server/v3host/20.20.1.1%2Cuser1">
  <hostip>20.20.1.1</hostip>
  <username>user1</username>
  <udp-port>160</udp-port>
  <notifytype>informs</notifytype>
  <engineid>00:00:00:00:00:00</engineid>
  <severity-level>Info</severity-level>
  <use-vrf>mgmt-vrf</use-vrf>
</v3host>
```

The following is an example of the POST operation to configure SNMP server v3host parameters.



**URI**

`http://host:80/rest/config/running/snmp-server`

**Request body**

```
<v3host>
  <hostip>10.20.1.1</hostip>
  <username>user4</username>
  <udp-port>145</udp-port>
  <notifytype>traps</notifytype>
  <engineid>00:00:00:00:00:00</engineid>
  <severity-level>Info</severity-level>
  <use-vrf>default-vrf</use-vrf>
</v3host>
```

**Response body**

None

The following is an example of the DELETE operation to remove SNMP server v3host configurations.

**URI**

`http://host:80/rest/config/running/snmp-server/v3host`

**Request body**

None

**Response body**

None

***History***

Release version	History
6.0.0	The API call was introduced.
6.0.1	The API call was modified to include the parameter <i>use-vrf</i> .

## support

Configures, modifies, or retrieves support configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/support	Support
<base_URI>/config/running/support/autoupload	Autoupload operation. Refer to <a href="#">support/autoupload</a> for information
<base_URI>/config/running/support/autoupload-param	Autoupload parameters. Refer to <a href="#">support/autoupload-param</a> for information
<base_URI>/config/running/support/support-param	Copy support parameters. Refer to <a href="#">support/support-param</a> for information

### Parameters

Name	Description
<i>autoupload</i>	Autoupload operation
<i>autoupload-param</i>	Configures auto upload parameters
<i>support-param</i>	Configures copy support parameter
<i>ffdc</i>	Enable or Disable FFDC file generation

### Usage guidelines

GET, PUT, PATCH, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/support
```

#### Request body

None

#### Response body

```
<support xmlns="urn:brocade.com:mgmt:brocade-ras"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/support">
  <autoupload-param y:self="/rest/config/running/support/autoupload-param"/>
  <support-param y:self="/rest/config/running/support/support-param"/>
  <autoupload y:self="/rest/config/running/support/autoupload"/>
  <ffdc>true</ffdc>
</support>
```

### *History*

Release version	History
5.0.0	The API call was introduced.

## support/autoupload

Configures, modifies, or retrieves autoupload configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/support	Support
<base_URI>/config/running/support/autoupload	Autoupload operation

### Parameters

Name	Description
<i>enable</i>	Enable autoupload

### Usage guidelines

GET, PUT, PATCH, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/support/autoupload
```

#### Request body

None

#### Response body

```
<autoupload y:self="/rest/config/running/support/autoupload">
  <enable>true</enable>
</autoupload>
```

### History

Release version	History
5.0.0	The API call was introduced.

## support/autoupload-param

Configures, modifies, or retrieves autoupload parameter configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/support	Support
<base_URI>/config/running/support/autoupload-param	Autoupload parameters

### Parameters

Name	Description
<i>hostip</i>	IP address of the remote host
<i>username</i>	The user name to access the remote host
<i>directory</i>	The path to the directory
<i>protocol</i>	The protocol used to access the remote server
<i>password</i>	The password to access the remote host

### Usage guidelines

GET, PUT, PATCH, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/support/autoupload-param
```

#### Request body

None

#### Response body

```
<autoupload-param y:self="/rest/config/running/support/autoupload-param">
  <hostip>127.0.0.1</hostip>
  <username>user1</username>
  <directory>12</directory>
  <protocol>ftp</protocol>
  <password>"XDVmJTJ/uRBkyWmSat7/og==\n"</password>
</autoupload-param>
```

The following is an example of the PUT operation to add a user name and protocol to the support parameter.

#### URI

```
http://host:80/rest/config/running/support
```

## 4 Configuration APIs

### Request body

```
<autoupload-param>
  <hostip>127.0.0.1</hostip>
  <username>user1</username>
  <directory>test</directory>
  <protocol>ftp</protocol>
  <password>"XDVMJTJ/uRBkyWmSat7/og==\n"</password>
</autoupload-param>
```

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## support/support-param

Configures, modifies, or retrieves support parameter configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/support	Support
<base_URI>/config/running/support/support-param	Copy support parameters

### Parameters

Name	Description
<i>hostip</i>	IP address of the remote host
<i>username</i>	The user name to access the remote host
<i>directory</i>	The path to the directory
<i>protocol</i>	The protocol used to access the remote server
<i>password</i>	The password to access the remote host

### Usage guidelines

GET, PUT, PATCH, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/support/support-param
```

#### Request body

None

#### Response body

```
<support-param y:self="/rest/config/running/support/support-param">
  <hostip>10.20.38.100</hostip>
  <username>user1</username>
  <directory>12</directory>
  <protocol>scp</protocol>
  <password>"XDVmJTJ/uRBkyWmSat7/og==\n"</password>
</support-param>
```

### History

Release version	History
5.0.0	The API call was introduced.

## switch-attributes

Configures, modifies, or retrieves switch attributes configurations.

### Resource URIs

URI	Description
<base_URI>/config/running/switch-attributes	Switch attributes
<base_URI>/config/running/switch-attributes/rbridge-id	RBridge-id setting

### Parameters

Name	Description
<i>rbridge-id</i>	The RBridge ID the attribute is to be set for
<i>chassis-name</i>	The switch chassis name
<i>host-name</i>	The switch host name

### Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/switch-attributes
```

#### Request body

None

#### Response body

```
<switch-attributes xmlns="urn:brocade.com:mgmt:brocade-ras"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/switch-attributes">
  <rbridge-id y:self="/rest/config/running/switch-attributes/rbridge-id/122">
    <rbridge-id>122</rbridge-id>
    <chassis-name>VDX8770-8</chassis-name>
    <host-name>M8-122</host-name>
  </rbridge-id>
  <rbridge-id y:self="/rest/config/running/switch-attributes/rbridge-id/125">
    <rbridge-id>125</rbridge-id>
    <chassis-name>VDX8770-4</chassis-name>
    <host-name>M4-125</host-name>
  </rbridge-id>
  <rbridge-id y:self="/rest/config/running/switch-attributes/rbridge-id/54">
    <rbridge-id>54</rbridge-id>
    <chassis-name>VDX6740</chassis-name>
    <host-name>CAS-54</host-name>
  </rbridge-id>
```



```
</switch-attributes>
```

The following is an example of the DELETE operation to change the switch attributes to default values.

**URI**

```
http://host:80/rest/config/running/switch-attributes/rbridge-id/60
```

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## system-monitor-mail

Configures, modifies, or retrieves FRU mail settings.

### Resource URIs

URI	Description
<base_URI>/config/running/system-monitor-mail	FRU mail setting
<base_URI>/config/running/system-monitor-mail/fru	FRU mail settings. Refer to <a href="#">system-monitor-mail/fru</a> for information
<base_URI>/config/running/system-monitor-mail/interface	Interface mail settings. Refer to <a href="#">system-monitor-mail/interface</a> for information
<base_URI>/config/running/system-monitor-mail/relay	Relay IP mail settings. Refer to <a href="#">system-monitor-mail/relay</a> for information
<base_URI>/config/running/system-monitor-mail/security	Security mail settings. Refer to <a href="#">system-monitor-mail/security</a> for information
<base_URI>/config/running/system-monitor-mail/sfp	SFP mail settings. Refer to <a href="#">system-monitor-mail/sfp</a> for information

### Parameters

Name	Description
<i>fru</i>	Configures FRU mail settings
<i>interface</i>	Configures interface mail settings
<i>relay</i>	Configures relay IP mail settings
<i>security</i>	Configures security mail settings
<i>sfp</i>	Configures SFP mail settings

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/system-monitor-mail
```

#### Request body

None

#### Response body

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/system-monitor-mail">
```

```
<fru y:self="/rest/config/running/system-monitor-mail/fru"/>
<sfp y:self="/rest/config/running/system-monitor-mail/sfp"/>
<security y:self="/rest/config/running/system-monitor-mail/security"/>
<interface y:self="/rest/config/running/system-monitor-mail/interface"/>
<relay y:self="/rest/config/running/system-monitor-mail/relay/10.20.38.100"/>
</system-monitor-mail>
```

### *History*

Release version	History
5.0.0	The API call was introduced.

## system-monitor-mail/fru

Configures, modifies, or retrieves FRU mail settings.

### Resource URIs

URI	Description
<base_URI>/config/running/system-monitor-mail	FRU mail setting
<base_URI>/config/running/system-monitor-mail/fru	FRU mail settings

### Parameters

Name	Description
<i>email</i>	E-mail address for alerts
<i>enable</i>	Enable e-mail alerts

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/system-monitor-mail/fru
```

#### Request body

None

#### Response body

```
<fru y:self="/rest/config/running/system-monitor-mail/fru">
  <enable>true</enable>
  <email-list
y:self="/rest/config/running/system-monitor-mail/fru/email-list/abc@brocade.com"
  >
    <email>abc@brocade.com</email>
  </email-list>
</fru>
```

### History

Release version	History
5.0.0	The API call was introduced.

## system-monitor-mail/interface

Configures, modifies, or retrieves interface mail settings.

### Resource URIs

URI	Description
<base_URI>/config/running/system-monitor-mail	FRU mail setting
<base_URI>/config/running/system-monitor-mail/interface	Interface mail settings

### Parameters

Name	Description
<i>email</i>	E-mail address for alerts
<i>enable</i>	Enable e-mail alerts

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/system-monitor-mail/interface
```

#### Request body

None

#### Response body

```
<interface y:self="/rest/config/running/system-monitor-mail/interface">
  <enable>true</enable>
  <email-list
y:self="/rest/config/running/system-monitor-mail/interface/email-list/abc1@brocade.com">
    <email>abc1@brocade.com</email>
  </email-list>
</interface>
```

### History

Release version	History
5.0.0	The API call was introduced.

## system-monitor-mail/relay

Configures, modifies, or retrieves relay IP mail settings.

### Resource URIs

URI	Description
<base_URI>/config/running/system-monitor-mail	FRU mail setting
<base_URI>/config/running/system-monitor-mail/relay	Relay IP mail settings

### Parameters

Name	Description
host-ip	The IPv4 address of the mail server.
domain-name	The domain that corresponds to the e-mail ID

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/system-monitor-mail/relay
```

#### Request body

None

#### Response body

```
<relay y:self="/rest/config/running/system-monitor-mail/relay/10.20.38.100">
  <host-ip>10.20.38.100</host-ip>
  <domain-name>domain1</domain-name>
</relay>
```

The following is an example of the POST operation to configure the relay host for e-mail to work in a non-DNS environment.

#### URI

```
http://host:80/rest/config/running/system-monitor-mail
```

#### Request body

```
<relay>
  <host-ip>10.20.38.120</host-ip>
  <domain-name>domain1</domain-name>
</relay>
```

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## system-monitor-mail/security

Configures, modifies, or retrieves security mail settings.

### Resource URIs

URI	Description
<base_URI>/config/running/system-monitor-mail	FRU mail setting
<base_URI>/config/running/system-monitor-mail/security	Security mail settings

### Parameters

Name	Description
<i>email</i>	E-mail address for alerts
<i>enable</i>	Enable e-mail alerts

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/system-monitor-mail/security
```

#### Request body

None

#### Response body

```
<security y:self="/rest/config/running/system-monitor-mail/security">
  <enable>true</enable>
  <email-list
y:self="/rest/config/running/system-monitor-mail/security/email-list/abc@brocade
.com">
    <email>abc@brocade.com</email>
  </email-list>
</security>
```

The following is an example of the DELETE operation to remove the security e-mail settings.

#### URI

```
http://host:80/rest/config/running/system-monitor-mail/security
```

#### Request body

None



**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## system-monitor-mail/sfp

Configures, modifies, or retrieves FRU mail settings.

### Resource URIs

URI	Description
<base_URI>/config/running/system-monitor-mail	FRU mail setting
<base_URI>/config/running/system-monitor-mail/sfp	SFP mail settings

### Parameters

Name	Description
<i>email</i>	E-mail address for alerts
<i>enable</i>	Enable e-mail alerts

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

`http://host:80/rest/config/running/system-monitor-mail/sfp`

#### Request body

None

#### Response body

```
<sfp y:self="/rest/config/running/system-monitor-mail/sfp">
  <enable>true</enable>
  <email-list
y:self="/rest/config/running/system-monitor-mail/sfp/email-list/abc1@brocade.com
">
    <email>abc1@brocade.com</email>
  </email-list>
</sfp>
```

### History

Release version	History
5.0.0	The API call was introduced.

## tacacs-server

Configures, modifies, or retrieves TACACS+ server configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/tacacs-server	TACACS+ server

### Parameters

Name	Description
<i>hostname</i>	Specifies the IP address or domain name of the TACACS+ server
<i>encryption-level</i>	Level of encryption of the key
<i>key</i>	Secret shared with this server
<i>port</i>	TCP authentication port
<i>protocol</i>	Authentication protocol
<i>retries</i>	Number of retries for this server connection
<i>timeout</i>	Wait time for this server to respond
<i>source-ip</i>	Source IP address to be used for Tacacs+ server

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/tacacs-server
```

#### Request body

None

#### Response body

```
<tacacs-server xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/tacacs-server">
  <host y:self="/rest/config/running/tacacs-server/host/10.20.38.100">
    <hostname>10.20.38.100</hostname>
    <port>55</port>
    <protocol>pap</protocol>
    <key>"Yf0BKEhsc83gp+kIoGMQ/g==\n"</key>
    <encryption-level>7</encryption-level>
    <retries>6</retries>
    <timeout>10</timeout>
  </host>
```

## 4 Configuration APIs

```
<source-ip>chassis-ip</source-ip>
</tacacs-server>
```

The following is an example of the POST operation to add a new host to the TACACS server.

### URI

`http://host:80/rest/config/running/tacacs-server`

### Request body

```
<host>
  <hostname>10.20.38.110</hostname>
</host>
```

### Response body

None

The following is an example of the DELETE operation to remove a host name from the TACACS server.

### URI

`http://host:80/rest/config/running/tacacs-server/host/10.20.38.110`

### Request body

None

### Response body

None

## *History*

Release version	History
5.0.0	The API call was introduced.

## username

Configures, modifies, or retrieves configuration of local users.

### Resource URIs

URI	Description
<base_URI>/config/running/username	Configuration of local users

### Parameters

Name	Description
<i>name</i>	The account login name
<i>desc</i>	Description of the account
<i>enable</i>	Represents whether the user account is enabled
<i>encryption-level</i>	Level of encryption of the password
<i>expire</i>	Date until when the password will remain valid
<i>password</i>	Account password
<i>role</i>	The role assigned to the user account

### Usage guidelines

GET, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/username
```

#### Request body

None

#### Response body

```
<username xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/username/admin">
  <name>admin</name>
  <password>"BwrsDbB+tABWGWpINOVKoQ==\n"</password>
  <encryption-level>7</encryption-level>
  <role>admin</role>
  <desc>Administrator</desc>
</username>
<username xmlns="urn:brocade.com:mgmt:brocade-aaa"
xmlns:y="http://brocade.com/ns/rest"
y:self="/rest/config/running/username/user1">
  <name>user1</name>
```

## 4 Configuration APIs

```
<password>"Zzq31Rtf/++XZ3uIC1keMw==\n"</password>
<encryption-level>7</encryption-level>
<role>user</role>
<desc>user1</desc>
<expire>2016-06-06</expire>
</username>
```

The following is an example of the DELETE operation to remove a user name.

### URI

`http://host:80/rest/config/running/username/user3`

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## VCS

Configures, modifies, or retrieves Virtual Cluster Switching configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/vcs	Virtual Cluster Switching
<base_URI>/config/running/vcs/virtual	Virtual cluster switching configuration. Refer to <a href="#">vcs/virtual</a> for information
<base_URI>/config/running/vcs/virtual-fabric	VCS virtual-fabric. Refer to <a href="#">vcs/virtual-fabric</a> for information

### Parameters

Name	Description
address	Virtual IP address
Ve	VE interface number
enable	Enable virtual fabric

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/vcs
```

#### Request body

None

#### Response body

```
<vcs xmlns="urn:brocade.com:mgmt:brocade-vcs"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/vcs">
  <virtual y:self="/rest/config/running/vcs/virtual"/>
  <virtual-fabric y:self="/rest/config/running/vcs/virtual-fabric"/>
</vcs>
```

### History

Release version	History
5.0.0	The API call was introduced.

## vcs/virtual

Configures, modifies, or retrieves Virtual Cluster Switching configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/vcs	Virtual Cluster Switching
<base_URI>/config/running/vcs/virtual	Virtual Cluster Switching configuration
<base_URI>/config/running/vcs/virtual/ip/address	Virtual IP address
<base_URI>/config/running/vcs/virtual/ipv6/address	Virtual IPv6 address

### Parameters

Name	Description
address	Virtual IP address
Ve	VE interface number

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/vcs/virtual
```

#### Request body

None

#### Response body

```
<virtual y:self="/rest/config/running/vcs/virtual">
  <ip y:self="/rest/config/running/vcs/virtual/ip">
    <address
y:self="/rest/config/running/vcs/virtual/ip/address/%2210.20.1.1/24%22">
      <address>10.20.1.1/24</address>
      <inband
y:self="/rest/config/running/vcs/virtual/ip/address/%2210.20.1.1/24%22/inband">
        <interface
y:self="/rest/config/running/vcs/virtual/ip/address/%2210.20.1.1/24%22/inband/in
terface">
          <ve>10</ve>
        </interface>
      </inband>
    </address>
  </ip>
</virtual>
```



The following is an example of the POST operation to add a new virtual IP address.

**URI**

`http://host:80/rest/config/running/vcs`

**Request body**

```
<virtual>
  <ip>
    <address>
      <address>10.20.1.2/24</address>
    </address>
  </ip>
</virtual>
```

**Response body**

None

The following is an example of the DELETE operation to remove a virtual IP address.

**URI**

`http://host:80/rest/config/running/vcs/virtual/ip/address/%2210.20.1.2/24%22`

**Request body**

None

**Response body**

None

***History***

Release version	History
5.0.0	The API call was introduced.

## vcs/virtual-fabric

Configures, modifies, or retrieves Virtual Cluster Switching virtual-fabric configuration.

### Resource URIs

URI	Description
<base_URI>/config/running/vcs	Virtual Cluster Switching
<base_URI>/config/running/vcs/virtual-fabric	VCS virtual-fabric

### Parameters

Name	Description
enable	Enable virtual fabric

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/vcs/virtual-fabric
```

#### Request body

None

#### Response body

```
<virtual-fabric y:self="/rest/config/running/vcs/virtual-fabric">  
  <enable>true</enable>  
</virtual-fabric>
```

### History

Release version	History
5.0.0	The API call was introduced.

## vlan

Configures, modifies, or retrieves VLAN commands.

### Resource URIs

URI	Description
<base_URI>/config/running/vlan	VLAN commands
<base_URI>/config/running/vlan/classifier	VLAN classification groups commands. Refer to <a href="#">vlan/classifier</a> for information
<base_URI>/config/running/vlan/dot1q	Dot1q parameters. Refer to <a href="#">vlan/dot1q</a> for information

### Parameters

Name	Description
<i>classifier</i>	VLAN classification commands
<i>dot1q</i>	Configures dot1q parameters

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/vlan
```

#### Request body

None

#### Response body

```
<vlan xmlns="urn:brocade.com:mgmt:brocade-vlan"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/vlan">
  <classifier y:self="/rest/config/running/vlan/classifier"/>
  <dot1q y:self="/rest/config/running/vlan/dot1q"/>
</vlan>
```

### History

Release version	History
5.0.0	The API call was introduced.

## vlan/classifier

Configures, modifies, or retrieves VLAN classifier commands.

### Resource URIs

URI	Description
<base_URI>/config/running/vlan	VLAN commands
<base_URI>/config/running/vlan/classifier	VLAN classification groups commands
<base_URI>/config/running/vlan/classifier/group	VLAN classifier group ID

### Parameters

Name	Description
<i>ruleid</i>	Specifies the VLAN identification rule
<i>address</i>	MAC address
<i>proto-val</i>	Specifies the protocol to use for the VLAN classifier rule
<i>encap</i>	Specifies to encapsulate the Ethernet frames sent for the VLAN classifier rule
<i>groupid</i>	The group ID of the classifier
<i>oper</i>	Operation
<i>rule-name</i>	Rule name

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/vlan/classifier
```

#### Request body

None

#### Response body

```
<classifier y:self="/rest/config/running/vlan/classifier">
  <rule y:self="/rest/config/running/vlan/classifier/rule/3">
    <ruleid>3</ruleid>
    <mac y:self="/rest/config/running/vlan/classifier/rule/3/mac">
      <address>0011.2222.2233</address>
    </mac>
  </rule>
  <rule y:self="/rest/config/running/vlan/classifier/rule/4">
    <ruleid>4</ruleid>
    <proto y:self="/rest/config/running/vlan/classifier/rule/4/proto">
```

```

        <proto-val>arp</proto-val>
        <encap>ethv2</encap>
    </proto>
</rule>
<group y:self="/rest/config/running/vlan/classifier/group/2%2Cadd%2Crule%2C3">
    <groupid>2</groupid>
    <oper>add</oper>
    <rule-name>rule</rule-name>
    <ruleid>3</ruleid>
</group>
</classifier>

```

The following is an example of the POST operation to add a rule.

#### URI

`http://host:80/rest/config/running/vlan/classifier`

#### Request body

```

<rule>
  <ruleid>3</ruleid>
  <proto>
    <proto-val>ip</proto-val>
    <encap>snapllc</encap>
  </proto>
</rule>

```

#### Response body

None

The following is an example of the DELETE operation to remove a rule.

#### URI

`http://host:80/rest/config/running/vlan/classifier/rule/2`

#### Request body

None

#### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## vlan/dot1q

Configures, modifies, or retrieves VLAN dot1q commands.

### Resource URIs

URI	Description
<base_URI>/config/running/vlan	VLAN commands
<base_URI>/config/running/vlan/dot1q	Dot1q parameters

### Parameters

Name	Description
native	The native VLAN is enabled

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

http://host:80/rest/config/running/vlan/dot1q

#### Request body

None

#### Response body

```
<dot1q y:self="/rest/config/running/vlan/dot1q">  
  <tag y:self="/rest/config/running/vlan/dot1q/tag">  
    <native>true</native>  
  </tag>  
</dot1q>
```

### History

Release version	History
5.0.0	The API call was introduced.

## zoning

Configures, modifies, or retrieves zoning commands.

### Resource URIs

URI	Description
<base_URI>/config/running/zoning	Zoning commands
<base_URI>/config/running/zoning/defined-configuration	Defined DB entries. Refer to <a href="#">zoning/defined-configuration</a> for information
<base_URI>/config/running/zoning/enabled-configuration	Enabled DB entries. Refer to <a href="#">zoning/enabled-configuration</a> for information

### Parameters

Name	Description
<i>defined-configuration</i>	Defined DB entries
<i>enabled-configuration</i>	Enabled DB entries

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/zoning
```

#### Request body

None

#### Response body

```
<zoning xmlns="urn:brocade.com:mgmt:brocade-zone"
xmlns:y="http://brocade.com/ns/rest" y:self="/rest/config/running/zoning">
  <defined-configuration
y:self="/rest/config/running/zoning/defined-configuration"/>
  <enabled-configuration
y:self="/rest/config/running/zoning/enabled-configuration"/>
</zoning>
```

### History

Release version	History
5.0.0	The API call was introduced.

## zoning/defined-configuration

Configures, modifies, or retrieves defined DB entry commands.

### Resource URIs

URI	Description
<base_URI>/config/running/zoning	Zoning commands
<base_URI>/config/running/zoning/defined-configuration	Defined DB entries
<base_URI>/config/running/zoning/defined-configuration/alias	List of defined Zone Aliases
<base_URI>/config/running/zoning/defined-configuration/alias/{alias-name}/member-entry	Add members to a zone
<base_URI>/config/running/zoning/defined-configuration/cfg	List of defined CFGs
<base_URI>/config/running/zoning/defined-configuration/cfg-name/{cfg-name}/member-zone	Add members to cfg
<base_URI>/config/running/zoning/defined-configuration/zone	List of defined zones
<base_URI>/config/running/zoning/defined-configuration/zone/{zone-name}/member-entry	Add members to a zone

### Parameters

Name	Description
<i>cfg-name</i>	Name of the zone configuration
<i>zone-name</i>	Specifies the name of a zone to be added to the configuration or removed from the configuration
<i>entry-name</i>	The name of the entry
<i>alias-name</i>	Specifies a zone alias
<i>alias-entry-name</i>	Specifies the WWN of the device to be added to the zone alias
<i>default-zone-access</i>	<ul style="list-style-type: none"> <li>allaccess - Sets the default zone access mode to "All Access". Each device can access all other devices attached to the VCS Fabric.</li> <li>Noaccess - Sets the default zone access mode to "No Access". No device can access any other device in the VCS Fabric.</li> </ul>
<i>cfg-action</i>	Defined configuration action - list the supported ones. <ul style="list-style-type: none"> <li>cfg-clear - Clear</li> <li>cfg-disable - Disable</li> <li>cfg-none - None</li> <li>cfg-save - Save</li> <li>cfg-transaction-abort - Transaction abort</li> </ul>
<i>member-entry</i>	WWN of the device to be added to the zone alias
<i>member-zone</i>	Name of a zone to be added to the configuration



### *Usage guidelines*

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### *Examples*

The following is an example of the GET operation to retrieve the configuration details.

#### URI

`http://host:80/rest/config/running/zoning/defined-configuration`

#### Request body

None

#### Response body

```

<defined-configuration
y:self="/rest/config/running/zoning/defined-configuration">
  <cfg y:self="/rest/config/running/zoning/defined-configuration/cfg/cfg1">
    <cfg-name>cfg1</cfg-name>
    <member-zone
y:self="/rest/config/running/zoning/defined-configuration/cfg/cfg1/member-zone/z
one2">
      <zone-name>zone2</zone-name>
    </member-zone>
  </cfg>
  <zone y:self="/rest/config/running/zoning/defined-configuration/zone/zone5">
    <zone-name>zone5</zone-name>
    <member-entry
y:self="/rest/config/running/zoning/defined-configuration/zone/zone5/member-entr
y/alias1">
      <entry-name>alias1</entry-name>
    </member-entry>
  </zone>
  <alias
y:self="/rest/config/running/zoning/defined-configuration/alias/alias1">
    <alias-name>alias1</alias-name>
    <member-entry
y:self="/rest/config/running/zoning/defined-configuration/alias/alias1/member-en
try/10:00:00:00:00:00:01">
      <alias-entry-name>10:00:00:00:00:00:01</alias-entry-name>
    </member-entry>
  </alias>
</defined-configuration>

```

The following is an example of the POST operation to create a new zone configuration

#### URI

`http://host:80/rest/config/running/zoning/defined-configuration`

#### Request body

```

<cfg>
  <cfg-name>cfg1</cfg-name>
</cfg>

```

## 4 Configuration APIs

### Response body

None

The following is an example of the DELETE operation to remove a zoning alias.

### URI

`hhttp://host:80/rest/config/running/zoning/defined-configuration/alias/alias2`

### Request body

None

### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## zoning/enabled-configuration

Configures, modifies, or retrieves zoning enabled DB entry commands.

### Resource URIs

URI	Description
<base_URI>/config/running/zoning	Zoning commands
<base_URI>/config/running/zoning/defined-configuration	Defined DB entries
<base_URI>/config/running/zoning/enabled-configuration	Enabled DB entries

### Parameters

Name	Description
<i>cfg-name</i>	Name of the zone configuration
<i>default-zone-access</i>	<ul style="list-style-type: none"> <li>allaccess - Sets the default zone access mode to "All Access". Each device can access all other devices attached to the VCS Fabric.</li> <li>Noaccess - Sets the default zone access mode to "No Access". No device can access any other device in the VCS Fabric.</li> </ul>
<i>cfg-action</i>	Defined configuration action - list the supported ones. <ul style="list-style-type: none"> <li>cfg-clear - Clear</li> <li>cfg-disable - Disable</li> <li>cfg-none - None</li> <li>cfg-save - Save</li> <li>cfg-transaction-abort - Transaction abort</li> </ul>

### Usage guidelines

GET, POST, PUT, PATCH, DELETE, OPTIONS, and HEAD operations are supported.

### Examples

The following is an example of the GET operation to retrieve the configuration details.

#### URI

```
http://host:80/rest/config/running/zoning/enabled-configuration
```

#### Request body

None

#### Response body

```
<enabled-configuration
y:self="/rest/config/running/zoning/enabled-configuration">
  <cfg-name>" "</cfg-name>
  <default-zone-access>allaccess</default-zone-access>
  <cfg-action>cfg-save</cfg-action>
</enabled-configuration>
```

## 4 Configuration APIs

### *History*

Release version	History
5.0.0	The API call was introduced.

## Operational APIs

The URI `http://host:80/rest/operational-state` is used to perform the Custom RPC operations defined in the YANG.

## activate-status

Retrieves the firmware activation status.

### Resource URIs

URI	Description
<base_URI>/operational-state/activate-status	Retrieves the firmware activation status

### Parameters

Name	Description
overall-status	Overall activation status on the switch
rbridge-id	The RBridge ID
status	Activation status for a particular RBridge ID

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/activate-status

#### Request body

```
<activate-status></activate-status>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-firmware'>
  <overall-status>0</overall-status>
  <activate-entries>
    <rbridge-id>54</rbridge-id>
    <status>0</status>
  </activate-entries>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## bn-config-cmd

Copies configuration data to or from the system.

### Resource URIs

URI	Description
<base_URI>/operational-state/bn-config-cmd	Copy configuration data to or from the system

### Parameters

Name	Description
session-id	This id is used along with bn-config-cmd-status API to get the status of this operation (inprogress/complete)
status	Status of this operation (inprogress/complete)

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/bn-config-cmd
```

#### Request body

```
<bn-config-cmd>
  <src>running-config</src>
  <dest>startup-config</dest>
</bn-config-cmd>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-ras'>
  <session-id>0</session-id>
  <status>in-progress</status>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## bna-config-cmd-status

Retrieves the status of a previous configuration command.

### Resource URIs

URI	Description
<base_URI>/operational-state/bna-config-cmd-status	Retrieves the status of a previous configuration command

### Parameters

Name	Description
status	Shows the status of API bna-config-cmd (completed/inprogress)
status-string	BNA config command status

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/bna-config-cmd-status
```

#### Request body

```
<bna-config-cmd-status>
  <session-id>0</session-id>
</bna-config-cmd-status>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-ras'>
  <status>completed</status>
  <status-string></status-string>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.



## dad-status

Displays the current status of firmware download.

### Resource URIs

URI	Description
<base_URI>/operational-state/dad-status	Displays the current status of firmware download

### Parameters

Name	Description
<i>index</i>	Index number
<i>date-and-time-info</i>	Date and time information
<i>message</i>	Status message
<i>dad-last-state</i>	<ul style="list-style-type: none"> <li>• dad-in-progress</li> <li>• dad-failed</li> <li>• dad-completed</li> </ul>

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

`http://host:80/rest/operational-state/dad-status`

#### Request body

```
<dad-status></dad-status>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-firmware'>
  <dad-status-entries>
    <index>1</index>
    <date-and-time-info>Fri Oct 25 21:01:12 GMT 2013</date-and-time-info>
    <message>DHCP Auto-deployment enabled.</message>
  </dad-status-entries>
  <dad-status-entries>
    <index>2</index>
    <date-and-time-info>Fri Oct 25 21:09:57 GMT 2013</date-and-time-info>
    <message>DHCP Auto-deployment failed during DHCP process.</message>
  </dad-status-entries>
  <dad-status-entries>
    <index>3</index>
    <date-and-time-info>Thu Mar 13 05:15:06 SCT 2014</date-and-time-info>
    <message>DHCP Auto-deployment failed to enable.</message>
  </dad-status-entries>
  <dad-status-entries>
    <index>14</index>
```

## 4 Operational APIs

```
<date-and-time-info>Thu Mar 13 19:45:10 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>15</index>
  <date-and-time-info>Thu Mar 13 20:24:50 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>34</index>
  <date-and-time-info>Sun Mar 16 15:53:23 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>35</index>
  <date-and-time-info>Sun Mar 16 16:32:33 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>36</index>
  <date-and-time-info>Sun Mar 16 17:13:51 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>37</index>
  <date-and-time-info>Sun Mar 16 18:01:41 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>38</index>
  <date-and-time-info>Sun Mar 16 18:46:12 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>39</index>
  <date-and-time-info>Sun Mar 16 19:31:00 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>40</index>
  <date-and-time-info>Sun Mar 16 20:16:07 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>41</index>
  <date-and-time-info>Sun Mar 16 20:59:21 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-status-entries>
  <index>42</index>
  <date-and-time-info>Sun Mar 16 21:41:38 SCT 2014</date-and-time-info>
  <message>DHCP Auto-deployment failed to enable.</message>
</dad-status-entries>
<dad-last-state>dad-failed</dad-last-state>
</output>
```

## *History*

Release version	History
5.0.0	The API call was introduced.

## fcoe-get-interface

Retrieves the FCoE interface information.

### Resource URIs

URI	Description
<base_URI>/operational-state/fcoe-get-interface	Retrieves the FCoE interface information

### Parameters

Name	Description
<i>fcoe-intf-total-interfaces</i>	The total number of interfaces whose details are being returned

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/fcoe-get-interface
```

#### Request body

```
<fcoe-intf-total-interfaces></fcoe-intf-total-interfaces>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-fcoe-ext'>
  <fcoe-intf-total-interfaces>0</fcoe-intf-total-interfaces>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## fcoe-get-login

Retrieves the login information on FCoE End nodes that have logged in to the managed device.

### Resource URIs

URI	Description
<base_URI>/operational-state/fcoe-get-login	Retrieves the login information on FCoE End nodes that have logged in to the managed device

### Parameters

Name	Description
fcoe-login-total-logins	The total number of devices logged in

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/fcoe-get-login
```

#### Request body

```
<fcoe-get-login></fcoe-get-login>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-fcoe-ext'>
  <fcoe-login-total-logins>0</fcoe-login-total-logins>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## firmware-download

Retrieves the firmware level commands.

### Resource URIs

URI	Description
<base_URI>/operational-state/firmware-download	Retrieves the firmware level commands

### Parameters

Name	Description
<i>rbridge-id</i>	Rbridge ID for the switch where firmware download initiated
<i>fwdl-status</i>	0 or 1 - Success. Any negative value is error
<i>fwdl-msg</i>	0 - Success but disruptive/non-ISSU upgrade, 1 - Success and ISSU upgrade. Any negative value is error.

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/firmware-download

#### Request body

```
<firmware-download>
  <scp>
    <user>fvt</user>
    <password>pray4green</password>
    <host>10.31.2.25</host>
    <directory>/buildsjc/sre/SQA/nos/nos6.0.1/nos6.0.1_bld20</directory>
  </scp>
  <rbridge-id>6</rbridge-id>
  <coldboot></coldboot>
</firmware-download>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-firmware'>
  <cluster-output>
    <rbridge-id>6</rbridge-id>
    <fwdl-status>0</fwdl-status>
    <fwdl-msg>Disruptive.</fwdl-msg>
  </cluster-output>
  <fwdl-cmd-status>0</fwdl-cmd-status>
  <fwdl-cmd-msg>Logical-chassis firmware download initiated.</fwdl-cmd-msg>
</output>
```

## *History*

Release version	History
6.0.1	The API call was introduced.

## fwdl-status

Retrieves the firmware download status.

### Resource URIs

URI	Description
<base_URI>/operational-state/fwdl-status	Retrieves the firmware download status

### Parameters

Name	Description
<i>fwdl-state</i>	The firmware download state
<i>number-of-entries</i>	Specifies the number of status entries
<i>index</i>	Sequence number for the message
<i>blade-name</i>	Name of the blade
<i>message-id</i>	Message identifier
<i>date-and-time-info</i>	Date and time of the message. The format is YYYY-MM-DD/HH:MM:SS.SSSS
<i>message</i>	Textual description of the status

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/fwdl-status
```

#### Request body

```
<fwdl-status></fwdl-status>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-firmware'>
  <fwdl-state>completed</fwdl-state>
  <number-of-entries>18</number-of-entries>
  <fwdl-entries>
    <index>1</index>
    <blade-name>SW/0</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-06-23/19:31:31</date-and-time-info>
    <message>Firmware install begins.</message>
  </fwdl-entries>
  <fwdl-entries>
    <index>2</index>
    <blade-name>SW/0</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-06-23/19:34:44</date-and-time-info>
```



```
<message>Firmware install ends.</message>
</fwdl-entries>
<fwdl-entries>
  <index>3</index>
  <blade-name>SW/1</blade-name>
  <message-id>0</message-id>
  <date-and-time-info>2014-06-23/19:34:44</date-and-time-info>
  <message>Firmware install begins.</message>
</fwdl-entries>
</output>
```

## *History*

Release version	History
5.0.0	The API call was introduced.

## get-arp

Retrieves the ARP cache information.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-arp	Retrieves the ARP cache details

### Parameters

Name	Description
<i>ip-address</i>	IP address of the ARP entry
<i>mac-address</i>	MAC address of the ARP entry
<i>interface-type</i>	The interface type
<i>interface-name</i>	The interface name
<i>is-resolved</i>	Indicates whether the ARP entry is resolved or not
<i>age</i>	The age of the ARP entry
<i>entry-type</i>	The type of the ARP entry

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/get-arp

#### Request body

```
<get-arp></get-arp>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-arp'>
  <arp-entry>
    <ip-address>20.0.0.122</ip-address>
    <mac-address>0005.3379.407a</mac-address>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
    <is-resolved>true</is-resolved>
    <age>03:16:05</age>
    <entry-type>dynamic</entry-type>
  </arp-entry>
</output>
```

## *History*

Release version	History
5.0.0	The API call was introduced.

## get-contained-in-ID

Retrieves enclosure related information on embedded platforms.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-contained-in-ID	Retrieves enclosure related information on embedded platforms.

### Parameters

Name	Description
contained-in-ID	Provides present slot ID of switch

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/get-contained-in-ID

#### Request body

```
<get-contained-in-ID></get-contained-in-ID>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-Enclosure-show'>
  <contained-in-ID>Bay 7</contained-in-ID>
</output>
```

### History

Release version	History
5.0.1	The API call was introduced.

## get-flexports

Retrieves the list of flexports

### *Resource URIs*

URI	Description
<base_URI>/operational-state/get-flexports	Retrieves the list of flexports

### *Parameters*

Name	Description
port-id	Retrieves the list of flexports

### *Usage guidelines*

Only POST operation is supported.

### *Examples*

#### URI

http://host:80/rest/operational-state/get-flexports

#### Request body

```
<get-flexports></get-flexports>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-hardware'>
  <flexport-list>
    <port-id>7/0/1</port-id>
    <port-id>7/0/2</port-id>
    <port-id>7/0/3</port-id>
    <port-id>7/0/4</port-id>
    <port-id>7/0/5</port-id>
    <port-id>7/0/7</port-id>
    <port-id>7/0/6</port-id>
    <port-id>7/0/8</port-id>
    <port-id>7/0/17</port-id>
    <port-id>7/0/18</port-id>
    <port-id>7/0/19</port-id>
    <port-id>7/0/20</port-id>
    <port-id>7/0/21</port-id>
    <port-id>7/0/22</port-id>
    <port-id>7/0/40</port-id>
    <port-id>7/0/41</port-id>
    <port-id>7/0/45</port-id>
    <port-id>7/0/46</port-id>
    <port-id>7/0/47</port-id>
    <port-id>7/0/48</port-id>
  </flexport-list>
</output>
```

## 4 Operational APIs

### *History*

Release version	History
5.0.0	The API call was introduced.

## get-interface-detail

Retrieves operational data for all the VLANs, physical interfaces and port-channels.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-interface-detail	Retrieves operational data for a given VLAN and enumeration of all the interfaces belonging to this VLAN

### Parameters

Name	Description
<i>interface-type</i>	The interface type
<i>interface-name</i>	The interface name
<i>port-role</i>	The current role that the particular interface is playing. This is applicable only for physical interfaces
<i>port-mode</i>	The operational mode of the particular interface. This is applicable only for physical interfaces or port-channel interfaces
<i>if-name</i>	The interface display name as in MIB-II's ifTable. However interface-name and interface-type values of this instance forms fully qualified name for this interface
<i>if-state</i>	The current operational state of this interface
<i>line-protocol-state</i>	The 'Line protocol' state of the interface
<i>line-protocol-state-info</i>	The reason for the current line protocol state of the interface
<i>hardware-type</i>	The type of the interface
<i>current-hardware-address</i>	The address of the interface at its protocol sub-layer
<i>logical-hardware-address</i>	The address of the interface at its protocol sub-layer
<i>ifindex</i>	A unique value, greater than zero, for each interface
<i>mtu</i>	The IP MTU value of the interface
<i>actual-line-speed</i>	The actual line speed of this interface
<i>configured-line-speed</i>	The administratively configured line speed of the interface
<i>line-duplex-state</i>	The 'Line duplex state' of the interface
<i>flow-control</i>	The 'Flow control' for the interface
<i>queuing-strategy</i>	The 'Queuing strategy' for the interface
<i>ifHCInOctets</i>	The total number of octets received on the interface, including framing characters
<i>ifHCInUcastPkts</i>	The number of packets, delivered by this sub-layer to a higher (sub-)layer, which were not addressed to a multicast or broadcast address at this sub-layer
<i>ifHCInMulticastPkts</i>	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
<i>ifHCInBroadcastPkts</i>	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

Name	Description
<i>ifHCInErrors</i>	For packet-oriented interfaces, the number of inbound packets that contained errors preventing them from being deliverable to a higher-layer protocol. For character-oriented or fixed-length interfaces, the number of inbound transmission units that contained errors preventing them from being deliverable to a higher-layer protocol
<i>ifHCOctets</i>	The total number of octets transmitted out of the interface, including framing characters
<i>ifHCOutUcastPkts</i>	The total number of packets that higher-level protocols requested be transmitted, and which were not addressed to a multicast or broadcast address at the sub-layer, including those that were discarded or not sent
<i>ifHCOutMulticastPkts</i>	The total number of packets that higher-level protocols requested be transmitted, and which were addressed to a multicast address at this sub-layer, including those that were discarded or not sent. For a MAC layer protocol, this includes both Group and Functional addresses
<i>ifHCOutBroadcastPkt</i>	The total number of packets that higher-level protocols requested be transmitted, and which were addressed to a broadcast address at this sub-layer, including those that were discarded or not sent
<i>ifHCOutErrors</i>	For packet-oriented interfaces, the number of outbound packets that could not be transmitted because of errors. For character-oriented or fixed-length interfaces, the number of outbound transmission units that could not be transmitted because of errors
<i>ip-mtu</i>	IP MTU value of this interface
<i>line-protocol-exception-info</i>	'Exception information' of line protocol
<i>media-type</i>	The media type
<i>wavelength</i>	Wavelength of pluggable media
<i>if-description</i>	Textual string containing information about the interface
<i>queuing-strategy</i>	'Queuing strategy' for this interface

### *Usage guidelines*

Only POST operation is supported.

### *Examples*

#### URI

`http://host:80/rest/operational-state/get-interface-detail`

#### Request body

```
<get-interface-detail></get-interface-detail>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-interface-ext'>
  <interface>
    <interface-type>fortygigabitethernet</interface-type>
    <interface-name>1/0/49</interface-name>
    <port-role>edge</port-role>
    <port-mode>unknown</port-mode>
    <if-name>FortyGigabitEthernet 1/0/49</if-name>
```



```

<if-state>up</if-state>
<line-protocol-state>down</line-protocol-state>
<line-protocol-state-info>(link protocol down)</line-protocol-state-info>
<hardware-type>ethernet</hardware-type>
<current-hardware-address>00:27:f8:ce:5c:4e</current-hardware-address>
<logical-hardware-address>00:27:f8:ce:5c:4e</logical-hardware-address>
<ifindex>4496695488</ifindex>
<mtu>2500</mtu>
<actual-line-speed>nil</actual-line-speed>
<configured-line-speed>auto</configured-line-speed>
<line-duplex-state>full</line-duplex-state>
<flow-control></flow-control>
<queuing-strategy>fifo</queuing-strategy>
<ifHCInOctets>0</ifHCInOctets>
<ifHCInUcastPkts>0</ifHCInUcastPkts>
<ifHCInMulticastPkts>0</ifHCInMulticastPkts>
<ifHCInBroadcastPkts>0</ifHCInBroadcastPkts>
<ifHCInErrors>0</ifHCInErrors>
<ifHCOutOctets>0</ifHCOutOctets>
<ifHCOutUcastPkts>0</ifHCOutUcastPkts>
<ifHCOutMulticastPkts>0</ifHCOutMulticastPkts>
<ifHCOutBroadcastPkts>0</ifHCOutBroadcastPkts>
<ifHCOutErrors>0</ifHCOutErrors>
</interface>
</output>

```

If the entire information cannot be retrieved in a single execution, the last lines of output says `has-more=true`.

```

<has-more xmlns="urn:brocade.com:mgmt:brocade-interface-ext">true</has-more>
</rpc-reply>

```

In such cases the remaining information can be retrieved using "last-rcvd-interface" as shown in the request body below.

### Request body

```

<get-interface-detail>
  <last-rcvd-interface>
    <interface-type>tengigabitethernet</interface-type>
    <interface-name>7/0/33</interface-name>
  </last-rcvd-interface>
</get-interface-detail>

```

The API can be used to retrieve information regarding a specific port by applying filter as in the request body below.

### Request body

```

<get-interface-detail>
  <interface-type>tengigabitethernet</interface-type>
  <interface-name>7/0/22</interface-name>
</get-interface-detail>

```

## History

Release version	History
5.0.0	The API call was introduced.

## get-interface-switchport

Retrieves switch-port/Layer 2 characteristics of the interfaces configured as switchport in the managed device.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-interface-switchport	Returns switch-port or Layer 2 characteristics of all the interfaces in the managed device

### Parameters

Name	Description
<i>interface-name</i>	The Interface value
<i>interface-type</i>	The type of the interface
<i>mode</i>	The mode of the port-channel
<i>fcoe-port-enabled</i>	The FCoE capability is enabled on the interface
<i>ingress-filter-enabled</i>	Indicates if the 'Ingress filtering' is enabled for the interface
<i>acceptable-frame-type</i>	The switch-port ingress Frame admission policy - whether only tagged Frames are allowed or all
<i>default-vlan</i>	The 'default vlan' identifier value for this switch-port
<i>vlanid</i>	The list of active VLAN identifiers

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/get-interface-switchport

#### Request body

```
<get-interface-switchport></get-interface-switchport>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-interface-ext'>
  <switchport>
    <interface-name>195/2/1</interface-name>
    <interface-type>fortygigabitethernet</interface-type>
    <mode>access</mode>
    <fcoe-port-enabled>>false</fcoe-port-enabled>
    <ingress-filter-enabled>>true</ingress-filter-enabled>
    <acceptable-frame-type>admit-all</acceptable-frame-type>
    <default-vlan>1</default-vlan>
    <active-vlans>
      <vlanid>1</vlanid>
```

```
    </active-vlans>  
  </switchport>  
</output>
```

### *History*

Release version	History
5.0.0	The API call was introduced.

## get-ip-interface

Retrieves the IP interface details.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-ip-interface	Retrieves the IP interface details

### Parameters

Name	Description
<i>interface-type</i>	The network interface name in a VCS environment in the format: [rbridge-id]/slot/port
<i>interface-name</i>	The Interface value
<i>if-name</i>	The interface display name as in MIB-II's ifTable. However interface-name and interface-type values of this instance forms fully qualified name for this interface
<i>if-state</i>	The current operational state of the interface
<i>line-protocol-state</i>	The 'Line protocol' state of the interface
<i>ip-address</i>	The IP address for the management interface
<i>ipv4</i>	The IP address in dotted decimal/Mask (A.B.C.D/M)
<i>ipv4-type</i>	Indicates whether IP address is primary/secondary and corresponding Broadcast IP
<i>broadcast</i>	Broadcast IP Address
<i>ip-mtu</i>	MTU type
<i>vrf</i>	VRF name

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/get-ip-interface

#### Request body

```
<get-ip-interface></get-ip-interface>
```

#### Response body

```
<output>
  <interface>
    <interface-type>fortygigabitethernet</interface-type>
    <interface-name>2/0/49</interface-name>
    <if-name>FortyGigabitEthernet 2/0/49</if-name>
    <if-state>up</if-state>
```

```
<line-protocol-state>down</line-protocol-state>
<ip-address>
  <ipv4>unassigned</ipv4>
</ip-address>
</interface>
<interface>
  <interface-type>fortygigabitethernet</interface-type>
  <interface-name>2/0/50</interface-name>
  <if-name>FortyGigabitEthernet 2/0/50</if-name>
  <if-state>up</if-state>
  <line-protocol-state>down</line-protocol-state>
  <ip-address>
    <ipv4>unassigned</ipv4>
  </ip-address>
</interface>
</output>
```

### *History*

Release version	History
5.0.0	The API call was introduced.

## get-last-config-update-time

Retrieves the time stamp of the last configuration change on the system.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-last-config-update-time	Retrieves the time stamp of the last configuration change

### Parameters

Name	Description
last-config-update-time	The time stamp of the last configuration change

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/get-last-config-update-time

#### Request body

```
<get-last-config-update-time></get-last-config-update-time>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vcs'>  
  <last-config-update-time>1402481614</last-config-update-time>  
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## get-last-config-update-time-for-xpaths

Retrieves the time stamp of the last configuration change for xpaths.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-last-config-update-time-for-xpaths	Retrieves the time stamp of the last configuration change for xpaths

### Parameters

Name	Description
xpath-string	The xpath string
last-config-update-time	Indicates the time stamp of the last configuration change for xpaths

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/get-last-config-update-time-for-xpaths

#### Request body

```
<get-last-config-update-time-for-xpaths></get-last-config-update-time-for-xpaths>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vcs'>
  <last-config-update-time-for-xpaths>
    <xpath-string></xpath-string>
    <last-config-update-time>1402481614</last-config-update-time>
  </last-config-update-time-for-xpaths>
  <last-config-update-time-for-xpaths>
    <xpath-string>/cee-map</xpath-string>
    <last-config-update-time>1401508522</last-config-update-time>
  </last-config-update-time-for-xpaths>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## get-lldp-neighbor-detail

Retrieves the neighbor details of all the interfaces of the managed entity.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-lldp-neighbor-detail	Retrieves the neighbor details of all the interfaces of the managed entity

### Parameters

Name	Description
<i>local-interface-name</i>	Indicates the local interface display name
<i>local-interface-ifindex</i>	Indicates the local interface IfIndex
<i>local-interface-mac</i>	Indicates the local interface MAC address
<i>remote-interface-name</i>	Indicates the remote interface display name
<i>remote-interface-mac</i>	Indicates the remote interface MAC address
<i>dead-interval</i>	Indicates the dead interval
<i>remaining-life</i>	Indicates the remaining life period
<i>remote-chassis-id</i>	Indicates the remote chassis ID
<i>lldp-pdu-transmitted</i>	Number of LLDP PDUs transmitted from the interface
<i>lldp-pdu-received</i>	Number of LLDP PDUs received by the interface
<i>remote-system-name</i>	Indicates the remote system name

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/get-lldp-neighbor-detail

#### Request body

```
<get-lldp-neighbor-detail></get-lldp-neighbor-detail>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-lldp-ext'>
  <lldp-neighbor-detail>
    <local-interface-name>Te 7/0/1</local-interface-name>
    <local-interface-ifindex>201334784</local-interface-ifindex>
    <local-interface-mac>0005.33ee.8006</local-interface-mac>
    <remote-interface-name>TenGigabitEthernet 14/1/10</remote-interface-name>
    <remote-interface-mac>0005.3379.6de7</remote-interface-mac>
    <dead-interval>120</dead-interval>
```



```

<remaining-life>117</remaining-life>
<remote-chassis-id>0005.3379.6d58</remote-chassis-id>
<lldp-pdu-transmitted>373</lldp-pdu-transmitted>
<lldp-pdu-received>372</lldp-pdu-received>
<remote-system-name>M4</remote-system-name>
</lldp-neighbor-detail>
<lldp-neighbor-detail>
  <local-interface-name>Te 7/0/3</local-interface-name>
  <local-interface-ifindex>201351168</local-interface-ifindex>
  <local-interface-mac>0005.33ee.8008</local-interface-mac>
  <remote-interface-name>port1</remote-interface-name>
  <remote-interface-mac>0005.3348.8e4f</remote-interface-mac>
  <dead-interval>120</dead-interval>
  <remaining-life>92</remaining-life>
  <remote-chassis-id>0005.3348.8e4f</remote-chassis-id>
  <lldp-pdu-transmitted>373</lldp-pdu-transmitted>
  <lldp-pdu-received>366</lldp-pdu-received>
</lldp-neighbor-detail>
<lldp-neighbor-detail>
  <local-interface-name>Te 7/0/31</local-interface-name>
  <local-interface-ifindex>201580544</local-interface-ifindex>
  <local-interface-mac>0005.33ee.8024</local-interface-mac>
  <remote-interface-name>TenGigabitEthernet 6/0/31</remote-interface-name>
  <remote-interface-mac>0005.33e7.2803</remote-interface-mac>
  <dead-interval>120</dead-interval>
  <remaining-life>116</remaining-life>
  <remote-chassis-id>0005.33e7.27e0</remote-chassis-id>
  <lldp-pdu-transmitted>373</lldp-pdu-transmitted>
  <lldp-pdu-received>373</lldp-pdu-received>
  <remote-system-name>RIGEL-MOR</remote-system-name>
</lldp-neighbor-detail>
<has-more>false</has-more>
</output>

```

## History

Release version	History
6.0.1	The API call was introduced.

## get-mac-acl-for-intf

Retrieves the MAC ACL applied on the interfaces.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-mac-acl-for-intf	Retrieves the MAC ACL applied on the interfaces

### Parameters

Name	Description
<i>interface-name</i>	The interface name
<i>interface-type</i>	The interface type
<i>policy-name</i>	The MAC ACL policy name

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/get-mac-acl-for-intf

#### Request body

```
<get-mac-acl-for-intf></get-mac-acl-for-intf>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-mac-access-list'>
  <interface>
    <interface-name>1/0/7</interface-name>
    <interface-type>tengigabitethernet</interface-type>
    <ingress-policy>
      <policy-name>stdmacacl</policy-name>
    </ingress-policy>
    <egress-policy>
      <policy-name>stdmacacl</policy-name>
    </egress-policy>
  </interface>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## get-mac-address-table

Retrieves the operational data for a given MAC entry.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-mac-address-table	Returns operational data for a given MAC entry and the corresponding details of that MAC entry

### Parameters

Name	Description
<i>vlanid</i>	The VLAN ID
<i>mac-address</i>	The MAC address
<i>mac-type</i>	The MAC type
<i>mac-state</i>	The MAC state
<i>interface-type</i>	The interface type
<i>interface-name</i>	The interface name

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/get-mac-address-table
```

#### Request body

```
<get-mac-address-table></get-mac-address-table>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-mac-address-table'>
  <mac-address-table>
    <vlanid>100</vlanid>
    <mac-address>00:11:22:22:33:33</mac-address>
    <mac-type>static</mac-type>
    <mac-state>inactive</mac-state>
    <forwarding-interface>
      <interface-type>port-channel</interface-type>
      <interface-name>25</interface-name>
    </forwarding-interface>
  </mac-address-table>
</output>
```

If the entire information cannot be retrieved in a single execution, the last lines of output says `has-more=true`. In such cases the remaining information can be retrieved using "last-rcvd-interface" as shown in the request body below.

### Request body

```
<get-interface-detail>
  <last-rcvd-interface>
    <interface-type>tengigabitethernet</interface-type>
    <interface-name>7/0/33</interface-name>
  </last-rcvd-interface>
</get-interface-detail>
```

### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-mac-address-table'>
  <mac-address-table>
    <vlanid>53</vlanid>
    <mac-address>00:05:33:48:8e:4f</mac-address>
    <mac-type>dynamic</mac-type>
    <mac-state>active</mac-state>
    <forwarding-interface>
      <interface-type>tengigabitethernet</interface-type>
      <interface-name>7/0/3</interface-name>
    </forwarding-interface>
  </mac-address-table>
  <has-more>>false</has-more>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.
6.0.0	The API was modified to include the has-more information details.

## get-media-detail

Retrieves the media properties of all the interfaces.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-media-detail	Retrieves the media properties of all the interfaces

### Parameters

Name	Description
<i>interface-type</i>	The interface type
<i>interface-name</i>	The interface name
<i>encoding</i>	The type of encoding used to transmit the data on this interface
<i>vendor-name</i>	The vendor of the interface
<i>vendor-oui</i>	The vendor IEEE company ID
<i>vendor-pn</i>	The vendor part number
<i>vendor-rev</i>	The vendor revision level
<i>distance</i>	SFP distance
<i>media-form-factor</i>	The media form factor
<i>wavelength</i>	The wavelength of pluggable media
<i>serial-no</i>	The serial number
<i>temperature</i>	The module temperature (degrees C)
<i>date-code</i>	The vendor's manufacturing date code
<i>voltage</i>	This indicates the supply voltage (Volts)
<i>current</i>	The laser diode drive current (milliAmps)
<i>tx-power</i>	The transmitted optical power (microWatts)
<i>rx-power</i>	The received optical power (microWatts)

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/get-media-detail
```

#### Request body

```
<get-media-detail></get-media-detail>
```

### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-interface-ext'>
  <interface>
    <interface-type>fortygigabitethernet</interface-type>
    <interface-name>54/0/50</interface-name>
    <qsfp>
      <speed>40Gbps</speed>
      <connector>mpo-parallel-optic</connector>
      <encoding>ieee-802-3ab</encoding>
      <vendor-name>BROCADE</vendor-name>
      <vendor-oui>00:05:1e</vendor-oui>
      <vendor-pn>57-1000128-01</vendor-pn>
      <vendor-rev>A</vendor-rev>
      <distance>short-dist</distance>
      <media-form-factor>unknown</media-form-factor>
      <wavelength>17000</wavelength>
      <serial-no>LTA112051000713</serial-no>
      <date-code>120202</date-code>
      <temperature>38</temperature>
      <voltage>3291.9</voltage>
      <current>7.138</current>
      <tx-power>0.0</tx-power>
      <rx-power>872.9</rx-power>
    </qsfp>
  </interface>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## get-nameserver-detail

Retrieves the detailed information of the devices stored in the name server database.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-nameserver-detail	Retrieves the detailed information of the devices stored in the name server database

### Parameters

Name	Description
<i>nameserver-portid</i>	List of all Nx_Ports registered in the name server database of this managed device
<i>nameserver-portname</i>	Port_Name (WWN) of this Nx_Port
<i>nameserver-nodename</i>	Node_Name (WWN) of this Nx_Port
<i>nameserver-cos</i>	Fibre Channel Class of service supported by the device
<i>nameserver-scr</i>	State change notifications that the device has registered for
<i>nameserver-fc4s</i>	Fibre Channel FC4 services supported by the device
<i>nameserver-portsymb</i>	User-defined name of this port
<i>nameserver-nodesymb</i>	User-defined name of the node of this port
<i>nameserver-fabric-portname</i>	Fabric port name (WWN) of this port
<i>nameserver-permanent-portname</i>	Type and role of the device
<i>nameserver-devicetype</i>	Type and role of the device
<i>nameserver-porttype</i>	Fibre Channel port type
<i>nameserver-index</i>	Port index number
<i>nameserver-sharearea</i>	Indicates whether or not the port utilizes the Brocade shared area method of fibre channel addressing
<i>nameserver-redirect</i>	Indicates whether or not the device is involved in Brocade frame redirection zoning
<i>nameserver-xlatedomain</i>	Indicates whether or not the device enters the fabric via a translate domain
<i>nameserver-connected-via-ag</i>	Indicates whether or not the device enters the fabric via access gateway
<i>nameserver-ag-base-device</i>	Indicates whether or not the device is a base access gateway device
<i>nameserver-real</i>	Indicates whether or not the device entered in the fabric via AG is a physical device
<i>nameserver-cascaded</i>	Indicates whether or not the device enters the fabric via a cascaded AG

### Usage guidelines

Only POST operation is supported.

### Examples

### URI

http://host:80/rest/operational-state/get-nameserver-detail

### Request body

```
<get-nameserver-detail></get-nameserver-detail>
```

### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-nameserver'>
  <show-nameserver>
    <nameserver-portid>0d0000</nameserver-portid>
    <nameserver-portname>20:00:8C:7C:FF:21:C0:00</nameserver-portname>
    <nameserver-nodename>20:00:8C:7C:FF:21:C0:01</nameserver-nodename>
    <nameserver-cos>3</nameserver-cos>
    <nameserver-scr>0</nameserver-scr>
    <nameserver-fc4s>FCP </nameserver-fc4s>
    <nameserver-portsymb>[7] "13/0/52"</nameserver-portsymb>
    <nameserver-nodesymb>NULL</nameserver-nodesymb>
    <nameserver-fabric-portname>50:02:7F:8C:31:32:30:82</nameserver-fabric-portname>
    <nameserver-permanent-portname>20:00:8C:7C:FF:21:C0:00</nameserver-permanent-portname>
    <nameserver-devicetype>Physical Target</nameserver-devicetype>
    <nameserver-porttype>N</nameserver-porttype>
    <nameserver-index>130</nameserver-index>
    <nameserver-sharearea>Yes</nameserver-sharearea>
    <nameserver-redirect>No</nameserver-redirect>
    <nameserver-xlatedomain>No</nameserver-xlatedomain>
    <nameserver-connected-via-ag>No</nameserver-connected-via-ag>
    <nameserver-ag-base-device>No</nameserver-ag-base-device>
    <nameserver-real>No</nameserver-real>
    <nameserver-cascaded>No</nameserver-cascaded>
  </show-nameserver>
</output>
```

### History

Release version	History
5.0.1	The API call was introduced.



## get-netconf-client-capabilities

Retrieves the session details, vendor details, IP details, time etc for all connected NETCONF clients.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-netconf-client-capabilities	Retrieves the vendor information of all the NETCONF clients

### Parameters

Name	Description
session-id	The session ID of the NETCONF client session
user-name	Login name of the user for the NETCONF client session
vendor	Vendor name of the NETCONF client session
product	Product name of the NETCONF client session
version	Product version of the NETCONF client session
identity	Identity of the NETCONF client session
host-ip	IP address of NETCONF client session
time	Login time of NETCONF client session

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/get-netconf-client-capabilities

#### Request body

```
<get-netconf-client-capabilities></get-netconf-client-capabilities>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-netconf-ext'>
  <session>
    <session-id>532</session-id>
    <user-name>admin</user-name>
    <vendor>BROCADE</vendor>
    <product>Network Advisor</product>
    <version>12.3.3 build 18</version>
    <identity>Administrator</identity>
    <af-type>IPV4</af-type>
    <host-ip>10.20.237.24</host-ip>
    <time>2015-01-12T11:02:42+00:00</time>
  </session>
```

</output>

### *History*

Release version	History
5.0.0	The API call was introduced.
6.0.0	The API was modified to include the parameter <i>af-type</i> .

## get-port-channel-detail

Retrieves the Link Aggregation Control Protocol (LACP) configuration parameters for all the port-channels in the system.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-port-channel-detail	Retrieves the Link Aggregation Control Protocol (LACP) information for all port-channel

### Parameters

Name	Description
<i>aggregator-id</i>	The aggregator ID
<i>aggregator-type</i>	The aggregator type
<i>isvlag</i>	Specifies if aggregator is VLAG
<i>aggregator-mode</i>	The aggregator mode
<i>system-priority</i>	The System Priority
<i>actor-system-id</i>	The Actor system ID
<i>partner-oper-priority</i>	The partner operational priority
<i>partner-system-id</i>	The Partner system ID
<i>admin-key</i>	The Admin key
<i>oper-key</i>	The Operational key
<i>partner-oper-key</i>	The Partner Operational key
<i>rx-link-count</i>	The RX link counter
<i>tx-link-count</i>	The TX link counter
<i>individual-agg</i>	Individual aggregator
<i>ready-agg</i>	Ready aggregator
<i>rbridge-id</i>	The RBridge ID
<i>interface-type</i>	The interface type
<i>interface-name</i>	The interface name
<i>actor-port</i>	The actor port number
<i>sync</i>	Sync-info

### Usage guidelines

Only POST operation is supported.

### Examples

### URI

http://host:80/rest/operational-state/get-port-channel-detail

### Request body

```
<get-port-channel-detail></get-port-channel-detail>
```

### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-lag'>
  <lacp>
    <aggregator-id>6</aggregator-id>
    <aggregator-type>standard</aggregator-type>
    <isvlag>true</isvlag>
    <aggregator-mode>dynamic</aggregator-mode>
    <system-priority>32768</system-priority>
    <actor-system-id>01:e0:52:00:20:00</actor-system-id>
    <partner-oper-priority>32768</partner-oper-priority>
    <partner-system-id>00:05:1e:cd:19:6a</partner-system-id>
    <admin-key>6</admin-key>
    <oper-key>6</oper-key>
    <partner-oper-key>6</partner-oper-key>
    <rx-link-count>4</rx-link-count>
    <tx-link-count>4</tx-link-count>
    <individual-agg>0</individual-agg>
    <ready-agg>1</ready-agg>
    <aggr-member>
      <rbridge-id>122</rbridge-id>
      <interface-type>tengigabitethernet</interface-type>
      <interface-name>122/5/13</interface-name>
      <actor-port>524410060933</actor-port>
      <sync>1</sync>
    </aggr-member>
  </lacp>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## get-port-profile-for-intf

Retrieves the port-profiles applied on ports and port-channels.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-port-profile-for-intf	Port-profiles applied on ports and port-channels

### Parameters

Name	Description
<i>interface-type</i>	The interface type
<i>interface-name</i>	The interface name
<i>name</i>	Port-profile name

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/get-port-profile-for-intf
```

#### Request body

```
<get-port-profile-for-intf></get-port-profile-for-intf>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-port-profile-ext'>
  <interface>
    <interface-type>tengigabitethernet</interface-type>
    <interface-name>2/0/12</interface-name>
    <port-profile>
      <name>default</name>
    </port-profile>
  </interface>
  <interface>
    <interface-type>tengigabitethernet</interface-type>
    <interface-name>2/0/13</interface-name>
    <port-profile>
      <name>default</name>
    </port-profile>
  </interface>
  <has-more>false</has-more>
</output>
```

If the entire information cannot be retrieved in a single execution as the output is huge or crossed designed length of chunk. In such cases the remaining information can be retrieved as shown in the request body below.

## 4 Operational APIs

### Request body

```
<get-port-profile-for-intf>
  <last-received-interface-info>
    <interface-type>tengigabitethernet</interface-type>
    <interface-name>18/0/50</interface-name>
  </last-received-interface-info>
</get-port-profile-for-intf>
```

### *History*

Release version	History
5.0.0	The API call was introduced.

## get-port-profile-status

Retrieves the port-profiles applied on ports and port-channels.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-port-profile-status	Retrieves the port-profiles applied on ports and port-channels

### Parameters

Name	Description
<i>name</i>	Profile name
<i>ppid</i>	Indicates the ID of the port-profile
<i>is-active</i>	Indicates if this port-profile is activated or not
<i>mac</i>	Indicates the MAC addresses associated with this port-profile
<i>interface-type</i>	Interface type
<i>interface-name</i>	Interface name

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/get-port-profile-status

#### Request body

```
<get-port-profile-status></get-port-profile-status>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-port-profile-ext'>
  <port-profile>
    <name>PP1</name>
    <ppid>2</ppid>
    <is-active>true</is-active>
    <has-more>true</has-more>
    <mac-association>
      <mac>00:00:11:11:22:22</mac>
    </mac-association>
    <mac-association>
      <mac>00:00:11:11:22:23</mac>
    </mac-association>
  </port-profile>
</output>
```

### *History*

Release version	History
5.0.0	The API call was introduced.



## get-portchannel-info-by-intf

Displays Link Aggregation Control Protocol (LACP) configuration parameters for an Aggregation Port.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-portchannel-info-by-intf	Displays Link Aggregation Control Protocol (LACP) configuration parameters for an Aggregation Port

### Parameters

Name	Description
<i>interface-type</i>	The interface type
<i>interface-name</i>	The interface name
<i>actor-port</i>	The actor port number
<i>system-priority</i>	The System Priority
<i>actor-system-id</i>	The Actor system ID
<i>partner-oper-priority</i>	The partner operational priority
<i>partner-system-id</i>	The Partner system ID
<i>actor-priority</i>	The Actor Priority
<i>admin-key</i>	The Admin key
<i>oper-key</i>	The Operational key
<i>receive-machine-state</i>	The state of the 'Receive Machine'
<i>periodic-transmission-machine-state</i>	The state of the 'Periodic Transmission machine'
<i>mux-machine-state</i>	The state of the 'Mux machine'
<i>admin-state</i>	The Admin state
<i>oper-state</i>	The Operational state
<i>partner-oper-state</i>	The Partner Operational state
<i>partner-oper-port</i>	The Partner Operational port
<i>actor-chip-number</i>	The actor chip number
<i>actor-max-deskew</i>	The actor maximum deskew
<i>partner-chip-number</i>	The actor chip number
<i>partner-max-deskew</i>	The partner maximum deskew
<i>actor-brcd-state</i>	Actor BRCD trunk state
<i>partner-brcd-state</i>	Partner BRCD trunk state

### Usage guidelines

Only POST operation is supported.

## Examples

### URI

http://host:80/rest/operational-state/get-portchannel-info-by-intf

### Request body

```
<get-portchannel-info-by-intf></get-portchannel-info-by-intf>
```

### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-lag'>
  <lacp>
    <interface-type>fortygigabitethernet</interface-type>
    <interface-name>122/8/1</interface-name>
    <actor-port>524204122304</actor-port>
    <system-priority>32255</system-priority>
    <actor-system-id>01:e0:52:00:20:00</actor-system-id>
    <partner-oper-priority>1</partner-oper-priority>
    <partner-system-id>00:00:00:00:00:01</partner-system-id>
    <actor-priority>32768</actor-priority>
    <admin-key>40</admin-key>
    <oper-key>40</oper-key>
    <receive-machine-state>current</receive-machine-state>
    <periodic-transmission-machine-state>slow-periodic</periodic-transmission-machine-state>
    <mux-machine-state>collecting-distributing</mux-machine-state>
    <admin-state>activity aggregation defaulted</admin-state>
    <oper-state>activity aggregation synchronization collecting
distributing</oper-state>
    <partner-oper-state>activity aggregation synchronization collecting
distributing</partner-oper-state>
    <partner-oper-port>1</partner-oper-port>
  </lacp>
</output>
```

## History

Release version	History
5.0.0	The API call was introduced.

## get-stp-brief-info

Displays spanning tree information.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-stp-brief-info	Displays spanning tree information

### Parameters

Name	Description
<i>stp-mode</i>	Type of the Spanning Tree Protocol configured on the switch
<i>priority</i>	The Bridge priority
<i>bridge-id</i>	The Bridge ID
<i>hello-time</i>	The interval between two transmissions of BPDU packets sent by the Root Bridge to tell all other switches that it is indeed the Root Bridge (1 to 10 sec)
<i>max-age</i>	The Max Age may be set to ensure that old information does not endlessly circulate through redundant paths in the network, preventing the effective propagation of new information (6 to 40 sec)
<i>forward-delay</i>	Port on the Switch spends this time in the listening state while moving from the blocking state to the forwarding state (4 to 30 sec)
<i>interface-type</i>	Interface type
<i>interface-name</i>	Interface name
<i>spanningtree-enabled</i>	Enable spanning tree
<i>if-index</i>	Interface index
<i>interface-id</i>	Interface ID
<i>if-role</i>	Interface role
<i>if-state</i>	Interface state
<i>external-path-cost</i>	Designated external path cost
<i>internal-path-cost</i>	Designated internal path cost
<i>configured-path-cost</i>	Configured path cost
<i>designated-port-id</i>	Designated port ID
<i>port-priority</i>	Port priority
<i>designated-bridge-id</i>	Designated bridge ID
<i>port-hello-time</i>	Port hello time
<i>forward-transitions-count</i>	Number of forward transitions
<i>received-stp-type</i>	Received (rx) stp type
<i>transmitted-stp-type</i>	Transmitted (tx) stp type
<i>edge-port</i>	Edge port mode
<i>auto-edge</i>	Auto edge

Name	Description
<i>admin-edge</i>	Admin edge
<i>edge-delay</i>	Edge delay
<i>configured-root-guard</i>	Configured root guard
<i>oper-root-guard</i>	Operational root guard
<i>boundary-port</i>	Is boundary
<i>oper-bpdu-guard</i>	Operational BPDU guard
<i>oper-bpdu-filter</i>	Operational BPDU filter
<i>link-type</i>	Spanning tree link type
<i>rx-bpdu-count</i>	Received BPDU count
<i>tx-bpdu-count</i>	Transmitted BPDU count

### *Usage guidelines*

Only POST operation is supported.

### *Examples*

#### URI

`http://host:80/rest/operational-state/get-stp-brief-info`

#### Request body

```
<get-stp-brief-info></get-stp-brief-info>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-xstp-ext'>
  <spanning-tree-info>
    <stp-mode>stp</stp-mode>
    <stp>
      <root-bridge>
        <priority>32768</priority>
        <bridge-id>8000.01e0.5200.0193</bridge-id>
        <hello-time>2</hello-time>
        <max-age>20</max-age>
        <forward-delay>15</forward-delay>
      </root-bridge>
      <bridge>
        <priority>32768</priority>
        <bridge-id>8000.01e0.5200.0193</bridge-id>
        <hello-time>2</hello-time>
        <max-age>20</max-age>
        <forward-delay>15</forward-delay>
      </bridge>
    </stp>
  </spanning-tree-info>
  <has-more>false</has-more>
</output>
```

### *History*

Release version	History
5.0.0	The API call was introduced.

## get-stp-mst-detail

Retrieves RPC to return MSTP details.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-stp-mst-detail	Retrieves RPC to return MSTP details

### Parameters

Name	Description
<i>cist-root-id</i>	CIST Root ID
<i>cist-bridge-id</i>	CIST bridge ID
<i>cist-reg-root-id</i>	CIST regional root ID
<i>root-forward-delay</i>	CIST root forward delay
<i>hello-time</i>	CIST root hello time
<i>max-age</i>	CIST root maximum age
<i>max-hops</i>	Hops the BPDU will be valid
<i>migrate-time</i>	Migration time
<i>interface-type</i>	The interface type
<i>interface-name</i>	The interface name
<i>spanningtree-enabled</i>	Is spanning tree enabled
<i>if-index</i>	Interface index
<i>interface-id</i>	Interface ID
<i>if-role</i>	Interface role
<i>if-state</i>	Interface state
<i>internal-path-cost</i>	Designated internal path cost
<i>external-path-cost</i>	Designated external path cost
<i>configured-path-cost</i>	Configured path cost
<i>designated-port-id</i>	Designated port ID
<i>port-priority</i>	Port priority
<i>designated-bridge-id</i>	Designated bridge ID
<i>forward-transitions-count</i>	Number of forward transitions
<i>port-hello-time</i>	Port hello time
<i>received-stp-type</i>	Received (rx) stp type
<i>transmitted-stp-type</i>	Transmitted (tx) stp type
<i>edge-port</i>	Edge Port mode
<i>auto-edge</i>	Auto Edge

Name	Description
<i>edge-delay</i>	Edge delay
<i>admin-edge</i>	Admin Edge
<i>boundary-port</i>	Is boundary
<i>configured-root-guard</i>	Configured root guard
<i>oper-root-guard</i>	Operational root guard
<i>oper-bpdu-guard</i>	Operational BPDU guard
<i>oper-bpdu-filter</i>	Operational BPDU filter
<i>link-type</i>	Point-to-point - enable rapid transition
<i>rx-bpdu-count</i>	Received BPDU count
<i>tx-bpdu-count</i>	Transmitted BPDU count
<i>instance-id</i>	Instance ID of the last received spanning-tree instance
<i>msti-root-id</i>	MSTI Root ID
<i>msti-bridge-id</i>	MSTI bridge ID
<i>msti-bridge-priority</i>	MSTI bridge priority
<i>vlan-id</i>	VLAN ID

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

`http://host:80/rest/operational-state/get-stp-mst-detail`

#### Request body

```
<get-stp-mst-detail></get-stp-mst-detail>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-xstp-ext'>
  <cist>
    <cist-root-id>8000.01e0.5200.05bf</cist-root-id>
    <cist-bridge-id>8000.01e0.5200.05bf</cist-bridge-id>
    <cist-reg-root-id>8000.01e0.5200.05bf</cist-reg-root-id>
    <root-forward-delay>15</root-forward-delay>
    <hello-time>2</hello-time>
    <max-age>20</max-age>
    <max-hops>20</max-hops>
    <migrate-time>3</migrate-time>
    <port>
      <interface-type>tengigabitethernet</interface-type>
      <interface-name>2/0/12</interface-name>
      <spanningtree-enabled>>false</spanningtree-enabled>
      <if-index>403046411</if-index>
      <interface-id>32768</interface-id>
      <if-role>disabled</if-role>
    </port>
  </cist>
</output>
```

```

    <if-state>forwarding</if-state>
    <internal-path-cost>0</internal-path-cost>
    <external-path-cost>0</external-path-cost>
    <configured-path-cost>20000000</configured-path-cost>
    <designated-port-id>0</designated-port-id>
    <port-priority>128</port-priority>
    <designated-bridge-id>0000.0000.0000.0000</designated-bridge-id>
    <forward-transitions-count>0</forward-transitions-count>
    <port-hello-time>2</port-hello-time>
    <received-stp-type>none</received-stp-type>
    <transmitted-stp-type>mstp</transmitted-stp-type>
    <edge-port>off</edge-port>
    <auto-edge>no</auto-edge>
    <edge-delay>3</edge-delay>
    <admin-edge>no</admin-edge>
    <boundary-port>yes</boundary-port>
    <configured-root-guard>off</configured-root-guard>
    <oper-root-guard>off</oper-root-guard>
    <oper-bpdu-guard>off</oper-bpdu-guard>
    <oper-bpdu-filter>off</oper-bpdu-filter>
    <link-type>point-to-point</link-type>
    <rx-bpdu-count>0</rx-bpdu-count>
    <tx-bpdu-count>0</tx-bpdu-count>
  </port>
</cist>
<msti>
  <instance-id>1</instance-id>
  <msti-root-id>8001.01e0.5200.05bf</msti-root-id>
  <msti-bridge-id>8001.01e0.5200.05bf</msti-bridge-id>
  <msti-bridge-priority>32769</msti-bridge-priority>
  <port>
    <interface-type>tengigabitethernet</interface-type>
    <interface-name>2/0/12</interface-name>
    <spanningtree-enabled>>false</spanningtree-enabled>
    <if-index>403046411</if-index>
    <interface-id>32768</interface-id>
    <if-role>disabled</if-role>
    <if-state>forwarding</if-state>
    <internal-path-cost>0</internal-path-cost>
    <configured-path-cost>20000000</configured-path-cost>
    <designated-port-id>0</designated-port-id>
    <port-priority>128</port-priority>
    <designated-bridge-id>0000.0000.0000.0000</designated-bridge-id>
    <forward-transitions-count>0</forward-transitions-count>
    <received-stp-type>none</received-stp-type>
    <transmitted-stp-type>mstp</transmitted-stp-type>
    <edge-port>off</edge-port>
    <auto-edge>no</auto-edge>
    <edge-delay>3</edge-delay>
    <admin-edge>no</admin-edge>
    <boundary-port>yes</boundary-port>
    <rx-bpdu-count>0</rx-bpdu-count>
    <tx-bpdu-count>0</tx-bpdu-count>
  </port>
</msti>
<has-more>>false</has-more>
</output>

```



### *History*

Release version	History
5.0.0	The API call was introduced.

## get-system-uptime

Retrieves the time since this managed entity was last re-initialized.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-system-uptime	Retrieves the time since this managed entity was last re-initialized

### Parameters

Name	Description
<i>rbridge-id</i>	The RBridge ID
<i>days</i>	The number of days the managed node is up since its last re-initialization
<i>hours</i>	The number of hours the managed node is up since its last re-initialization
<i>minutes</i>	The number of minutes the managed node is up since its last re-initialization
<i>seconds</i>	The number of seconds the managed node is up since its last re-initialization

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/get-system-uptime

#### Request body

```
<get-system-uptime></get-system-uptime>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-system'>
  <show-system-uptime>
    <rbridge-id>1</rbridge-id>
    <days>0</days>
    <hours>5</hours>
    <minutes>53</minutes>
    <seconds>4</seconds>
  </show-system-uptime>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## get-vcs-details

Retrieves the VCS Fabric configuration information.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-vcs-details	Retrieves the VCS Fabric configuration information

### Parameters

Name	Description
<i>node-vcs-mode</i>	Node's VCS mode
<i>local-switch-wwn</i>	WWN of local switch
<i>node-vcs-type</i>	VCS types
<i>node-vcs-id</i>	VCS ID
<i>principal-switch-wwn</i>	WWN of the principal switch
<i>co-ordinator-wwn</i>	WWN of the coordinator switch

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

`http://host:80/rest/operational-state/get-vcs-details`

#### Request body

`<get-vcs-details></get-vcs-details>`

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vcs'>
  <vcs-details>
    <node-vcs-mode>true</node-vcs-mode>
    <local-switch-wwn>10:00:00:27:F8:54:4F:98</local-switch-wwn>
    <node-vcs-type>vcs-management-cluster</node-vcs-type>
    <node-vcs-id>1</node-vcs-id>
    <principal-switch-wwn>10:00:00:27:F8:54:4F:98</principal-switch-wwn>
    <co-ordinator-wwn>10:00:00:27:F8:54:4F:98</co-ordinator-wwn>
  </vcs-details>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## get-vlan-brief

Retrieves the operational data for a given VLAN and enumeration of all the interfaces belonging to the VLAN.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-vlan-brief	Retrieves the operational data for a given VLAN and enumeration of all the interfaces belonging to the VLAN

### Parameters

Name	Description
<i>vlan-id</i>	The VLAN ID
<i>vlan-type</i>	The VLAN type
<i>vlan-name</i>	The administrative name of the VLAN
<i>vlan-state</i>	The operational state of the VLAN
<i>interface-type</i>	The interface type
<i>interface-name</i>	The interface name
<i>tag</i>	The state of the interface - untagged, tagged, or converged
<i>classification-type</i>	Type of classification
<i>classification-value</i>	Value of the VLAN classification
<i>last-vlan-id</i>	The last VLAN record that has been fetched

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/get-vlan-brief
```

#### Request body

```
<get-vlan-brief></get-vlan-brief>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-interface-ext'>
  <vlan>
    <vlan-id>1</vlan-id>
    <vlan-type>static</vlan-type>
    <vlan-name>default</vlan-name>
    <vlan-state>active</vlan-state>
    <interface>
      <interface-type>port-channel</interface-type>
```

```

        <interface-name>6</interface-name>
        <tag>tagged</tag>
    </interface>
</vlan>
</output>

```

If the entire information cannot be retrieved in a single execution, the last lines of output says `has-more=true`. In such cases the remaining information can be retrieved using "last-rcvd-interface" as shown in the request body below.

### Request body

```

<get-vlan-brief xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
  <last-rcvd-vlan-id>1</last-rcvd-vlan-id>
</get-vlan-brief>

```

### Response body

```

<output xmlns='urn:brocade.com:mgmt:brocade-interface-ext'>
  <vlan>
    <vlan-id>10</vlan-id>
    <vlan-type>static</vlan-type>
    <vlan-name>VLAN0010</vlan-name>
    <vlan-state>invalid</vlan-state>
  </vlan>
  <vlan>
    <vlan-id>52</vlan-id>
    <vlan-type>static</vlan-type>
    <vlan-name>VLAN0052</vlan-name>
    <vlan-state>invalid</vlan-state>
  </vlan>
  <vlan>
    <vlan-id>53</vlan-id>
    <vlan-type>static</vlan-type>
    <vlan-name>VLAN0053</vlan-name>
    <vlan-state>active</vlan-state>
    <interface>
      <interface-type>fortygigabitethernet</interface-type>
      <interface-name>7/0/49</interface-name>
      <tag>untagged</tag>
    </interface>
    <interface>
      <interface-type>tengigabitethernet</interface-type>
      <interface-name>7/0/3</interface-name>
      <tag>untagged</tag>
    </interface>
  </vlan>
  <vlan>
    <vlan-id>1002</vlan-id>
    <vlan-type>fcoe</vlan-type>
    <vlan-name>VLAN1002</vlan-name>
    <vlan-state>suspend</vlan-state>
  </vlan>
  <last-vlan-id>1002</last-vlan-id>
  <has-more>false</has-more>
</output>

```

### *History*

Release version	History
5.0.0	The API call was introduced.
6.0.0	The API was modified to include the has-more information details.

## get-vmpolicy-macaddr

Shows vnics/vmknics to port group to port-profile association.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-vmpolicy-macaddr	Shows vnics/vmknics to port group to port-profile association

### Parameters

Name	Description
mac	MAC address in HH:HH:HH:HH:HH:HH format
datacenter	Name of the datacenter
dvpg-nn	Distributed virtual port group
port-prof	Port-profile

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/get-vmpolicy-macaddr

#### Request body

```
<get-vmpolicy-macaddr>
  <vcenter>VC6</vcenter>
</get-vmpolicy-macaddr>
```

#### Response body

```
<output xmlns="urn:brocade.com:mgmt:brocade-vswitch">
  <vmpolicy-macaddr>
    <mac>00:21:5e:c6:0e:c8</mac>
    <datacenter>datacenter-4381</datacenter>
    <dvpg-nn>Management Network</dvpg-nn>
    <port-prof>auto_VC6_datacenter-4381_Management+Network</port-prof>
  </vmpolicy-macaddr>
  <vmpolicy-macaddr>
    <mac>00:50:56:aa:02:ee</mac>
    <datacenter>datacenter-4381</datacenter>
    <name>VM40</name>
    <dvpg-nn>pg3</dvpg-nn>
    <port-prof>auto_VC6_datacenter-4381_pg3</port-prof>
  </vmpolicy-macaddr>
  <vmpolicy-macaddr>
    <mac>00:50:56:aa:2d:36</mac>
    <datacenter>datacenter-2</datacenter>
```

```

    <name>VM10</name>
    <dvpg-nn>VM Network</dvpg-nn>
    <port-prof>auto_VC6_datacenter-2_VM+Network</port-prof>
  </vmpolicy-macaddr>
  <vmpolicy-macaddr>
    <mac>00:50:56:aa:3b:d7</mac>
    <datacenter>datacenter-4381</datacenter>
    <name>VM_Temp</name>
    <dvpg-nn>vlan-castor-19</dvpg-nn>
  </vmpolicy-macaddr>
  <vmpolicy-macaddr>
    <mac>00:50:56:b3:2d:ee</mac>
    <datacenter>datacenter-2</datacenter>
    <name>KVM_Hyperv_103_castor_castor-t</name>
  </vmpolicy-macaddr>
  <vmpolicy-macaddr>
    <mac>00:50:56:b3:43:74</mac>
    <datacenter>datacenter-2</datacenter>
    <name>KVM_Hyperv_105_castort_castor</name>
  </vmpolicy-macaddr>
  <vmpolicy-macaddr>
    <mac>e4:1f:13:31:cb:88</mac>
    <datacenter>datacenter-2</datacenter>
    <dvpg-nn>Management Network</dvpg-nn>
    <port-prof>auto_VC6_datacenter-2_Management+Network</port-prof>
  </vmpolicy-macaddr>
  <vmpolicy-macaddr>
    <mac>e4:1f:13:31:d3:f4</mac>
    <datacenter>datacenter-2</datacenter>
    <dvpg-nn>Management Network</dvpg-nn>
    <port-prof>auto_VC6_datacenter-2_Management+Network</port-prof>
  </vmpolicy-macaddr>
</output>

```

### *History*

Release version	History
5.0.0	The API call was introduced.



## get-vnetwork-dvpgs

Shows discovered distributed virtual port groups.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-vnetwork-dvpgs	Shows discovered distributed virtual port groups

### Parameters

Name	Description
<i>name</i>	Port group name
<i>datacenter</i>	Datacenter name
<i>dvs-nn</i>	Distributed virtual switch
<i>vlan</i>	Allowed VLANs

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/get-vnetwork-dvpgs
```

#### Request body

```
<get-vnetwork-dvpgs>
  <vcenter>VC6</vcenter>
</get-vnetwork-dvpgs>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vswitch'>
  <vnetwork-dvpgs>
    <name>dvPortGroup</name>
    <datacenter>datacenter-2</datacenter>
    <dvs-nn>dvSwitch</dvs-nn>
    <vlan>0,</vlan>
  </vnetwork-dvpgs>
  <vnetwork-dvpgs>
    <name>dvSwitch-DVUplinks-4504</name>
    <datacenter>datacenter-2</datacenter>
    <dvs-nn>dvSwitch</dvs-nn>
    <vlan>0-4094,</vlan>
  </vnetwork-dvpgs>
</output>
```

### *History*

Release version	History
5.0.0	The API call was introduced.

## get-vnetwork-dvs

Shows discovered Distributed Virtual Switches.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-vnetwork-dvs	Shows discovered Distributed Virtual Switches

### Parameters

Name	Description
<i>name</i>	Distributed virtual switch name
<i>datacenter</i>	Host datacenter
<i>host</i>	Host name
<i>pnic</i>	Host NIC
<i>interface-type</i>	The interface type
<i>interface-name</i>	The interface name

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/get-vnetwork-dvs
```

#### Request body

```
<get-vnetwork-dvs>
  <vcenter>VC6</vcenter>
</get-vnetwork-dvs>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vswitch'>
  <vnetwork-dvs>
    <name>dvSwitch</name>
    <datacenter>datacenter-2</datacenter>
    <host>ESX5-1-74.englab.brocade.com</host>
    <pnic>vmnic4</pnic>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
  </vnetwork-dvs>
  <vnetwork-dvs>
    <name>dvSwitch</name>
    <datacenter>datacenter-2</datacenter>
    <host>ESX5-1-74.englab.brocade.com</host>
    <pnic>vmnic5</pnic>
    <interface-type>unknown</interface-type>
```

## 4 Operational APIs

```
<interface-name></interface-name>
</vnetwork-dvs>
<vnetwork-dvs>
  <name>dvSwitch</name>
  <datacenter>datacenter-2</datacenter>
  <host>ESX5-1-74.englab.brocade.com</host>
  <pnictype>vmnic8</pnictype>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-dvs>
<vnetwork-dvs>
  <name>dvSwitch</name>
  <datacenter>datacenter-2</datacenter>
  <host>ESX5-1-74.englab.brocade.com</host>
  <pnictype>vmnic9</pnictype>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-dvs>
<instance-id>0</instance-id>
<has-more>false</has-more>
</output>
```

### *History*

Release version	History
5.0.0	The API call was introduced.

## get-vnetwork-hosts

Shows discovered hosts.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-vnetwork-hosts	Shows discovered hosts

### Parameters

Name	Description
<i>name</i>	Host name
<i>datacenter</i>	Host datacenter
<i>vmnic</i>	Host NIC
<i>mac</i>	Vmnic MAC address in HH:HH:HH:HH:HH:HH format
<i>vswitch</i>	Regular or distributed virtual switch
<i>interface-type</i>	The interface type
<i>interface-name</i>	The interface name

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/get-vnetwork-hosts
```

#### Request body

```
<get-vnetwork-hosts>
  <vcenter>VC6</vcenter>
</get-vnetwork-hosts>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vswitch'>
  <vnetwork-hosts>
    <name>ESX5-0-72.englab.brocade.com</name>
    <datacenter>datacenter-2</datacenter>
    <vmnic>vmnic0</vmnic>
    <mac>e4:1f:13:31:d3:f4</mac>
    <vswitch>vSwitch0</vswitch>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
  </vnetwork-hosts>
  <vnetwork-hosts>
    <name>ESX5-0-72.englab.brocade.com</name>
    <datacenter>datacenter-2</datacenter>
```

```

    <vmnic>vmnic1</vmnic>
    <mac>e4:1f:13:31:d3:f6</mac>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
  </vnetwork-hosts>
</vnetwork-hosts>
  <name>ESX5-0-72.englab.brocade.com</name>
  <datacenter>datacenter-2</datacenter>
  <vmnic>vmnic2</vmnic>
  <mac>00:1b:21:90:67:b4</mac>
  <vswitch>vSwitch1</vswitch>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-hosts>
</vnetwork-hosts>
  <name>ESX5-0-72.englab.brocade.com</name>
  <datacenter>datacenter-2</datacenter>
  <vmnic>vmnic4</vmnic>
  <mac>00:1b:21:90:67:b6</mac>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-hosts>
</vnetwork-hosts>
  <name>ESX5-0-72.englab.brocade.com</name>
  <datacenter>datacenter-2</datacenter>
  <vmnic>vusb0</vmnic>
  <mac>e6:1f:13:2b:23:f7</mac>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-hosts>
</vnetwork-hosts>
  <name>ESX5-1-74.englab.brocade.com</name>
  <datacenter>datacenter-2</datacenter>
  <vmnic>vmnic0</vmnic>
  <mac>00:21:5e:c6:b6:ec</mac>
  <vswitch>vSwitch0</vswitch>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-hosts>
</vnetwork-hosts>
  <name>ESX5-1-74.englab.brocade.com</name>
  <datacenter>datacenter-2</datacenter>
  <vmnic>vmnic13</vmnic>
  <mac>00:1b:21:90:70:2d</mac>
  <vswitch>vSwitch1</vswitch>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-hosts>
</vnetwork-hosts>
  <name>esx5-0-70.englab.brocade.com</name>
  <datacenter>datacenter-2</datacenter>
  <vmnic>vusb0</vmnic>
  <mac>e6:1f:13:2b:1b:8b</mac>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-hosts>
  <instance-id>0</instance-id>
  <has-more>false</has-more>
</output>

```

## *History*

Release version	History
5.0.0	The API call was introduced.

## get-vnetwork-portgroups

Shows discovered Port groups.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-vnetwork-portgroups	Shows discovered Port groups

### Parameters

Name	Description
<i>name</i>	Host name
<i>datacenter</i>	Host datacenter
<i>vlan</i>	Allowed VLANs
<i>host-nn</i>	Host name

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/get-vnetwork-portgroups
```

#### Request body

```
<get-vnetwork-portgroups>
  <vcenter>VC6</vcenter>
</get-vnetwork-portgroup>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vswitch'>
  <vnetwork-pgs>
    <name>Management Network</name>
    <datacenter>datacenter-2</datacenter>
    <vlan>0</vlan>
    <host-nn>ESX5-0-72.englab.brocade.com</host-nn>
  </vnetwork-pgs>
  <vnetwork-pgs>
    <name>PG-1001</name>
    <datacenter>datacenter-2</datacenter>
    <vlan>100</vlan>
    <host-nn>esx5-0-70.englab.brocade.com</host-nn>
  </vnetwork-pgs>
  <vnetwork-pgs>
    <name>VM Network</name>
    <datacenter>datacenter-2</datacenter>
    <vlan>0</vlan>
    <host-nn>ESX5-0-72.englab.brocade.com</host-nn>
```



```

</vnetwork-pgs>
<vnetwork-pgs>
  <name>VM Network</name>
  <datacenter>datacenter-2</datacenter>
  <vlan>0</vlan>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-pgs>
<vnetwork-pgs>
  <name>VM Network</name>
  <datacenter>datacenter-2</datacenter>
  <vlan>0</vlan>
  <host-nn>esx5-0-70.englab.brocade.com</host-nn>
</vnetwork-pgs>
<vnetwork-pgs>
  <name>VM Network</name>
  <datacenter>datacenter-4381</datacenter>
  <vlan>0</vlan>
  <host-nn>ESX5-1-75.englab.brocade.com</host-nn>
</vnetwork-pgs>
<vnetwork-pgs>
  <name>VM Network</name>
  <datacenter>datacenter-4381</datacenter>
  <vlan>0</vlan>
  <host-nn>ESXi5-0-71.englab.brocade.com</host-nn>
</vnetwork-pgs>
<vnetwork-pgs>
  <name>VM Network 2</name>
  <datacenter>datacenter-2</datacenter>
  <vlan>0</vlan>
  <host-nn>ESX5-0-72.englab.brocade.com</host-nn>
</vnetwork-pgs>
<vnetwork-pgs>
  <name>VM Network 2</name>
  <datacenter>datacenter-2</datacenter>
  <vlan>0</vlan>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-pgs>
<vnetwork-pgs>
  <name>VM Network 2</name>
  <datacenter>datacenter-2</datacenter>
  <vlan>4095</vlan>
  <host-nn>esx5-0-70.englab.brocade.com</host-nn>
</vnetwork-pgs>
<vnetwork-pgs>
  <name>pg4</name>
  <datacenter>datacenter-4381</datacenter>
  <vlan>100</vlan>
  <host-nn>ESX5-1-75.englab.brocade.com</host-nn>
</vnetwork-pgs>
<instance-id>0</instance-id>
<has-more>>false</has-more>
</output>

```

## History

Release version	History
5.0.0	The API call was introduced.

## get-vnetwork-vms

Shows discovered VMs.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-vnetwork-vms	Shows discovered VMs

### Parameters

Name	Description
<i>name</i>	Host name
<i>datacenter</i>	Host datacenter
<i>mac</i>	MAC address
<i>host-nn</i>	Host name

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/get-vnetwork-vms

#### Request body

```
<get-vnetwork-vms>
  <vcenter>VC6</vcenter>
</get-vnetwork-vms>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vswitch'>
  <vnetwork-vms>
    <name>KVM_Hyperv_101_castor_castor</name>
    <datacenter>datacenter-2</datacenter>
    <mac>00:50:56:b3:5e:25</mac>
    <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
  </vnetwork-vms>
  <vnetwork-vms>
    <name>KVM_Hyperv_101_castor_castor</name>
    <datacenter>datacenter-2</datacenter>
    <mac>00:50:56:b3:6b:19</mac>
    <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
  </vnetwork-vms>
  <vnetwork-vms>
    <name>KVM_Hyperv_102_castor_nexus</name>
    <datacenter>datacenter-2</datacenter>
    <mac>00:50:56:b3:37:c6</mac>
    <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
  </vnetwork-vms>
```

```

</vnetwork-vms>
<vnetwork-vms>
  <name>KVM_Hyperv_102_castor_nexus</name>
  <datacenter>datacenter-2</datacenter>
  <mac>00:50:56:b3:78:fb</mac>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-vms>
<vnetwork-vms>
  <name>KVM_Hyperv_103_castor_castor-t</name>
  <datacenter>datacenter-2</datacenter>
  <mac>00:50:56:b3:69:ca</mac>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-vms>
<vnetwork-vms>
  <name>KVM_Hyperv_106_castort_nexus</name>
  <datacenter>datacenter-2</datacenter>
  <mac>00:50:56:b3:76:ce</mac>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-vms>
<vnetwork-vms>
  <name>KVM_Hyperv_107_castort_castor-t</name>
  <datacenter>datacenter-2</datacenter>
  <mac>00:50:56:b3:39:f4</mac>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-vms>
<vnetwork-vms>
  <name>KVM_Hyperv_107_castort_castor-t</name>
  <datacenter>datacenter-2</datacenter>
  <mac>00:50:56:b3:68:a3</mac>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-vms>
<vnetwork-vms>
  <name>KVM_Hyperv_108_castort_callisto</name>
  <datacenter>datacenter-2</datacenter>
  <mac>00:50:56:b3:6e:22</mac>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-vms>
<vnetwork-vms>
  <name>Vm_test_clone1</name>
  <datacenter>datacenter-4381</datacenter>
  <mac>00:50:56:aa:43:33</mac>
  <host-nn>ESX5-1-75.englab.brocade.com</host-nn>
</vnetwork-vms>
<vnetwork-vms>
  <name>centos-don-script</name>
  <datacenter>datacenter-2</datacenter>
  <mac>00:50:56:8d:3c:a6</mac>
  <ip>255.255.255.255</ip>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-vms>
<vnetwork-vms>
  <name>centos-don-script</name>
  <datacenter>datacenter-2</datacenter>
  <mac>00:50:56:8d:44:0d</mac>
  <ip>255.255.255.255</ip>
  <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
</vnetwork-vms>
<instance-id>0</instance-id>
<has-more>>false</has-more>
</output>

```

### *History*

Release version	History
5.0.0	The API call was introduced.

## get-vnetwork-vswitches

Shows discovered Virtual Switches.

### Resource URIs

URI	Description
<base_URI>/operational-state/get-vnetwork-vswitches	Shows discovered Virtual Switches

### Parameters

Name	Description
<i>name</i>	Virtual switch name
<i>datacenter</i>	Host datacenter
<i>host</i>	Host name
<i>pnic</i>	Host NIC
<i>interface-type</i>	The interface type
<i>interface-name</i>	The interface name

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

`http://host:80/rest/operational-state/get-vnetwork-vswitches`

#### Request body

```
<get-vnetwork-vswitches>
  <vcenter>VC6</vcenter>
</get-vnetwork-vswitches>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vswitch'>
  <vnetwork-vswitches>
    <name>vSwitch0</name>
    <datacenter>datacenter-2</datacenter>
    <host>ESX5-0-72.englab.brocade.com</host>
    <pnic>vmnic0</pnic>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
  </vnetwork-vswitches>
  <vnetwork-vswitches>
    <name>vSwitch0</name>
    <datacenter>datacenter-2</datacenter>
    <host>ESX5-1-74.englab.brocade.com</host>
    <pnic>vmnic0</pnic>
    <interface-type>unknown</interface-type>
```

```

    <interface-name></interface-name>
  </vnetwork-vswitches>
</vnetwork-vswitches>
  <name>vSwitch2</name>
  <datacenter>datacenter-2</datacenter>
  <host>esx5-0-70.englab.brocade.com</host>
  <pnictype>vmnic1</pnictype>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-vswitches>
</vnetwork-vswitches>
  <name>vSwitch3</name>
  <datacenter>datacenter-4381</datacenter>
  <host>ESX5-1-75.englab.brocade.com</host>
  <pnictype>vmnic4</pnictype>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-vswitches>
</vnetwork-vswitches>
  <name>vSwitch4</name>
  <datacenter>datacenter-4381</datacenter>
  <host>ESX5-1-75.englab.brocade.com</host>
  <pnictype>vmnic5</pnictype>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-vswitches>
</vnetwork-vswitches>
  <name>vSwitch4</name>
  <datacenter>datacenter-4381</datacenter>
  <host>ESX5-1-75.englab.brocade.com</host>
  <pnictype>vmnic6</pnictype>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-vswitches>
</vnetwork-vswitches>
  <name>vSwitch4</name>
  <datacenter>datacenter-4381</datacenter>
  <host>ESX5-1-75.englab.brocade.com</host>
  <pnictype>vmnic7</pnictype>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-vswitches>
</vnetwork-vswitches>
  <name>vSwitch4</name>
  <datacenter>datacenter-4381</datacenter>
  <host>ESX5-1-75.englab.brocade.com</host>
  <pnictype>vmnic8</pnictype>
  <interface-type>unknown</interface-type>
  <interface-name></interface-name>
</vnetwork-vswitches>
<instance-id>0</instance-id>
<has-more>false</has-more>
</output>

```

## History

Release version	History
5.0.0	The API call was introduced.

## I2traceroute

Traces a TRILL route from a host source MAC address to a destination MAC address.

### Resource URIs

URI	Description
<base_URI>/operational-state/l2traceroute	Trace a TRILL route from the provided host-source-mac to host-dest-mac

### Parameters

Name	Description
session-id	Session ID given to client. Use in API I2traceroute-result to check the result of this operation
reason	Reason for this return

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/l2traceroute
```

#### Request body

```
<l2traceroute>
  <src-mac>0000.0000.0200</src-mac>
  <dest-mac>0000.0000.0201</dest-mac>
  <vlan-id>1</vlan-id>
  <rbridge-id>7</rbridge-id>
</l2traceroute>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-trilloam'>
  <session-id>458756</session-id>
  <reason>SUCCESS</reason>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## l2traceroute-result

Returns the result of a TRILL traceroute.

### Resource URIs

URI	Description
<base_URI>/operational-state/l2traceroute-result	l2traceroute command result

### Parameters

Name	Description
session-id	Session ID previously given by client to identify this session

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/l2traceroute-result

#### Request body

```
<l2traceroute-result>
  <session-id>458756</session-id>
</l2traceroute-result>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-trilloam'>
  <l2-hop-results></l2-hop-results>
  <l2traceroutedone>true</l2traceroutedone>
  <reason>Timed-out waiting for a response</reason>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.



## logical-chassis-fwdl-sanity

Retrieves firmware download sanity check status.

### Resource URIs

URI	Description
<base_URI>/operational-state/logical-chassis-fwdl-sanity	Retrieves firmware download sanity check status.

### Parameters

Name	Description
<i>rbridge-id</i>	The RBridge ID
<i>fwdl-status</i>	Firmware download status
<i>fwdl-msg</i>	Firmware download message
<i>fwdl-cmd-status</i>	Firmware download command status
<i>fwdl-cmd-msg</i>	Firmware download command message

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

`http://host:80/rest/operational-state/logical-chassis-fwdl-sanity`

#### Request body

```
<logical-chassis-fwdl-sanity>
  <user>user1</user>
  <password>user1</password>
  <host>192.168.10.2</host>
  <directory>/import/builds/sanity_bld_02</directory>
  <file>release.plist</file>
  <rbridge-id>2</rbridge-id>
  <auto-activate/>
  <protocol>scp</protocol>
</logical-chassis-fwdl-sanity>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-firmware'>
  <cluster-output>
    <rbridge-id>2</rbridge-id>
    <fwdl-status>1</fwdl-status>
    <fwdl-msg>ISSU protocol, non-disruptive.</fwdl-msg>
  </cluster-output>
  <fwdl-cmd-status>0</fwdl-cmd-status>
  <fwdl-cmd-msg>Firmware download sanity check completed
  successfully</fwdl-cmd-msg>
</output>
```

### *History*

Release version	History
5.0.0	The API call was introduced.

## logical-chassis-fwdl-status

Retrieves firmware activation status.

### Resource URIs

URI	Description
<base_URI>/operational-state/logical-chassis-fwdl-status	Retrieves firmware activation status

### Parameters

Name	Description
<i>rbridge-id</i>	RBridge ID in the cluster
<i>fwdl-state</i>	Firmware download state
<i>index</i>	Index
<i>message-id</i>	Firmware download message ID
<i>date-and-time-info</i>	Firmware download date and time
<i>message</i>	Firmware download message

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

`http://host:80/rest/operational-state/logical-chassis-fwdl-status`

#### Request body

```
<logical-chassis-fwdl-status></logical-chassis-fwdl-status>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-firmware'>
  <overall-status>0</overall-status>
  <cluster-fwdl-entries>
    <rbridge-id>54</rbridge-id>
    <fwdl-state>completed</fwdl-state>
    <fwdl-entries>
      <index>1</index>
      <message-id>0</message-id>
      <date-and-time-info>2014-07-04/23:52:39</date-and-time-info>
      <message>Firmware install begins.</message>
      <blade-name>SW/0</blade-name>
    </fwdl-entries>
    <fwdl-entries>
      <index>2</index>
      <message-id>0</message-id>
      <date-and-time-info>2014-07-04/23:55:33</date-and-time-info>
      <message>Firmware install ends.</message>
```

```

        <blade-name>SW/0</blade-name>
    </fwdl-entries>
</cluster-fwdl-entries>
<cluster-fwdl-entries>
    <rbridge-id>125</rbridge-id>
    <fwdl-state>completed</fwdl-state>
    <fwdl-entries>
        <index>1</index>
        <message-id>0</message-id>
        <date-and-time-info>2014-07-04/23:56:32</date-and-time-info>
        <message>Firmware install begins.</message>
        <blade-name>M2</blade-name>
    </fwdl-entries>
    <fwdl-entries>
        <index>2</index>
        <message-id>0</message-id>
        <date-and-time-info>2014-07-05/00:00:36</date-and-time-info>
        <message>Firmware install ends.</message>
        <blade-name>M2</blade-name>
    </fwdl-entries>
</cluster-fwdl-entries>
<cluster-fwdl-entries>
    <rbridge-id>55</rbridge-id>
    <fwdl-state>completed</fwdl-state>
    <fwdl-entries>
        <index>1</index>
        <message-id>0</message-id>
        <date-and-time-info>2014-07-04/23:52:08</date-and-time-info>
        <message>Firmware install begins.</message>
        <blade-name>SW/0</blade-name>
    </fwdl-entries>
    <fwdl-entries>
        <index>2</index>
        <message-id>0</message-id>
        <date-and-time-info>2014-07-04/23:55:10</date-and-time-info>
        <message>Firmware install ends.</message>
        <blade-name>SW/0</blade-name>
    </fwdl-entries>
</cluster-fwdl-entries>
</output>

```

## History

Release version	History
5.0.0	The API call was introduced.

## maps-get-all-policy

Retrieves the existing MAPS policies.

### *Resource URIs*

URI	Description
<base_URI>/operational-state/maps-get-all-policy	Retrieves the existing MAPS policies

### *Parameters*

Name	Description
<i>policyname</i>	MAPS policy name

### *Usage guidelines*

Only POST operation is supported.

### *Examples*

#### URI

```
http://host:80/rest/operational-state/maps-get-all-policy
```

#### Request body

```
<maps-get-all-policy></maps-get-all-policy>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-maps-ext'>
  <policy>
    <policyname>dflt_conservative_policy</policyname>
    <policyname>dflt_aggressive_policy</policyname>
    <policyname>dflt_moderate_policy</policyname>
  </policy>
</output>
```

### *History*

Release version	History
6.0.1	The API call was introduced.

## maps-get-rules

Retrieves the existing MAPS rules.

### Resource URIs

URI	Description
<base_URI>/operational-state/maps-get-rules	Retrieves the existing MAPS rules

### Parameters

Name	Description
<i>rulename</i>	MAPS rule name
<i>groupname</i>	MAPS group name
<i>monitor</i>	MAPS monitor name
<i>op</i>	MAPS operator
<i>value</i>	MAPS threshold value
<i>action</i>	MAPS action value
<i>timebase</i>	MAPS timebase value
<i>polycyname</i>	MAPS policy associated with rule

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

`http://host:80/rest/operational-state/maps-get-rules`

#### Request body

```
<maps-get-rules></maps-get-rules>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-maps-ext'>
  <rules>
    <rulename>defALL_ETH_PORTSCRCALN_0</rulename>
    <groupname>ALL_ETH_PORTS</groupname>
    <monitor>CRCALN</monitor>
    <op>></op>
    <value>0</value>
    <action>RASLOG</action>
    <timebase>MIN</timebase>
    <polycyname>dflt_conservative_policy</polycyname>
  </rules>
  <rules>
    <rulename>defALL_ETH_PORTSRX_SYM_ERR_0</rulename>
    <groupname>ALL_ETH_PORTS</groupname>
```

```

    <monitor>RX_SYM_ERR</monitor>
    <op>></op>
    <value>0</value>
    <action>RASLOG</action>
    <timebase>MIN</timebase>
    <policyname>dflt_conservative_policy</policyname>
</rules>
<rules>
  <rulename>defCHASSISBAD_FAN_MARG</rulename>
  <groupname>CHASSIS</groupname>
  <monitor>BAD_FAN</monitor>
  <op>=</op>
  <value>1</value>
  <action>RASLOG, SW_MARGINAL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_conservative_policy</policyname>
</rules>
<rules>
  <rulename>defALL_FANFAN_STATE_FAULTY</rulename>
  <groupname>ALL_FAN</groupname>
  <monitor>FAN_STATE</monitor>
  <op>=</op>
  <value>FAULTY</value>
  <action>RASLOG, SNMP, EMAIL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_conservative_policy</policyname>
</rules>
<rules>
  <rulename>defALL_FANFAN_STATE_OFF</rulename>
  <groupname>ALL_FAN</groupname>
  <monitor>FAN_STATE</monitor>
  <op>=</op>
  <value>OFF</value>
  <action>RASLOG, SNMP, EMAIL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_conservative_policy</policyname>
</rules>
<rules>
  <rulename>defALL_FANFAN_STATE_OUT</rulename>
  <groupname>ALL_FAN</groupname>
  <monitor>FAN_STATE</monitor>
  <op>=</op>
  <value>OUT</value>
  <action>RASLOG, SNMP, EMAIL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_conservative_policy</policyname>
</rules>
<rules>
  <rulename>defALL_ETH_PORTSRX_ABN_FRAME_0</rulename>
  <groupname>ALL_ETH_PORTS</groupname>
  <monitor>RX_ABN_FRAME</monitor>
  <op>></op>
  <value>0</value>
  <action>RASLOG</action>
  <timebase>MIN</timebase>
  <policyname>dflt_moderate_policy</policyname>
</rules>
<rules>
  <rulename>defALL_ETH_PORTSRX_IFG_0</rulename>
  <groupname>ALL_ETH_PORTS</groupname>

```

```

    <monitor>RX_IFG</monitor>
    <op>></op>
    <value>0</value>
    <action>RASLOG</action>
    <timebase>MIN</timebase>
    <policyname>dflt_moderate_policy</policyname>
</rules>
<rules>
  <rulename>defCHASSISBAD_FAN_CRIT</rulename>
  <groupname>CHASSIS</groupname>
  <monitor>BAD_FAN</monitor>
  <op>=</op>
  <value>2</value>
  <action>RASLOG, SW_CRITICAL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_moderate_policy</policyname>
</rules>
<rules>
  <rulename>defALL_FANFAN_STATE_IN</rulename>
  <groupname>ALL_FAN</groupname>
  <monitor>FAN_STATE</monitor>
  <op>==</op>
  <value>IN</value>
  <action>RASLOG, SNMP, EMAIL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_moderate_policy</policyname>
</rules>
<rules>
  <rulename>defALL_FANFAN_STATE_OUT</rulename>
  <groupname>ALL_FAN</groupname>
  <monitor>FAN_STATE</monitor>
  <op>==</op>
  <value>OUT</value>
  <action>RASLOG, SNMP, EMAIL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_moderate_policy</policyname>
</rules>
<rules>
  <rulename>defALL_FANFAN_STATE_OUT</rulename>
  <groupname>ALL_FAN</groupname>
  <monitor>FAN_STATE</monitor>
  <op>==</op>
  <value>OUT</value>
  <action>RASLOG, SNMP, EMAIL</action>
  <timebase>NONE</timebase>
  <policyname>dflt_aggressive_policy</policyname>
</rules>
</output>

```

### *History*

Release version	History
6.0.1	The API call was introduced.



## no-vcs-rbridge-context

Disables VCS Fabric mode.

### *Resource URIs*

URI	Description
<base_URI>/operational-state/no-vcs-rbridge-context	Disables VCS Fabric mode

### *Parameters*

None

### *Usage guidelines*

Only POST operation is supported.

### *Examples*

#### URI

```
http://host:80/rest/operational-state/no-vcs-rbridge-context
```

#### Request body

```
<no-vcs-rbridge-context></no-vcs-rbridge-context>
```

#### Response body

None

### *History*

Release version	History
5.0.0	The API call was introduced.

## reload

Reloads the switch

### *Resource URIs*

URI	Description
<base_URI>/operational-state/reload	Reloads the switch

### *Parameters*

None

### *Usage guidelines*

Only POST operation is supported.

### *Examples*

#### URI

http://host:80/rest/operational-state/reload

#### Request body

<reload></reload>

#### Response body

None

### *History*

Release version	History
5.0.1	The API call was introduced.

## set-http-application-url

Updates the HTTP application URL.

### Resource URIs

URI	Description
<base_URI>/operational-state/set-http-application-url	Update HTTP application URL

### Parameters

Name	Description
status-code	<ul style="list-style-type: none"> <li>• URL updated successfully - 0</li> <li>• Error not able to update configuration - 1</li> <li>• Error not able to remove configuration - 2</li> </ul>
status-string	Error in string format

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/set-http-application-url
```

#### Request body

```
<set-http-application-url>
  <config-http-app-url>
    <url>www.google.com</url>
    <op-type>0</op-type>
  </config-http-app-url>
</set-http-application-url>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-http-redirect'>
  <status-code>0</status-code>
  <status-string>Success</status-string>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## show-bare-metal-state

Indicates the bare-metal state on the system.

### Resource URIs

URI	Description
<base_URI>/operational-state/show-bare-metal-state	Indicates the bare-metal state on the system

### Parameters

Name	Description
<i>bare-metal-state</i>	Indicates the bare-metal state on the system

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/show-bare-metal-state
```

#### Request body

```
<show-bare-metal-state></show-bare-metal-state>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-preprovision'>
  <bare-metal-state>disable</bare-metal-state>
</output>
```

### History

Release version	History
6.0.1	The API call was introduced.

## show-clock

Retrieves the current time for the cluster or specified switch.

### Resource URIs

URI	Description
<base_URI>/operational-state/show-clock	Retrieves current time for the cluster or specified switch

### Parameters

Name	Description
<i>rbridge-id-out</i>	The RBridge ID
<i>current-time</i>	Switch date and time
<i>timezone</i>	Region/city or region/state/city

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/show-clock
```

#### Request body

```
<show-clock></show-clock>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-clock'>
  <clock-time>
    <rbridge-id-out>1</rbridge-id-out>
    <current-time>2014-05-19T16:25:06+00:00</current-time>
    <timezone>Etc/GMT+0</timezone>
  </clock-time>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## show-fibrechannel-interface-info

Retrieves the detailed information of FibreChannel ports.

### Resource URIs

URI	Description
<base_URI>/operational-state/show-fibrechannel-interface-info	Retrieves the detailed information of FibreChannel ports

### Parameters

Name	Description
portsgroup-rbridgeid	The RBridge ID of the switch

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/show-fibrechannel-interface-info

#### Request body

```
<show-fibrechannel-interface-info></show-fibrechannel-interface-info>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-fabric-service'>
  <show-fibrechannel-interface>
    <portsgroup-rbridgeid>1</portsgroup-rbridgeid>
  </show-fibrechannel-interface>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## show-firmware-versions

Retrieves the firmware version information.

### Resource URIs

URI	Description
<base_URI>/operational-state/show-firmware-version	Retrieves the firmware version information

### Parameters

Name	Description
<i>switchid</i>	Switch ID specifies the particular switch to fetch firmware version information
<i>os-name</i>	Name of the Firmware version. Example: NOS, FOS, etc.
<i>os-version</i>	Version of the Firmware
<i>copy-right-info</i>	Copyright information of the Firmware
<i>build-time</i>	Time information on the build of Firmware
<i>firmware-full-version</i>	Full version string of Firmware
<i>control-processor-vendor</i>	Information on the control processor
<i>control-processor-chipset</i>	Information on the control processor
<i>control-processor-memory</i>	Memory of the control processor
<i>slot-no</i>	The slot number
<i>node-instance-no</i>	The instance number
<i>Node-type</i>	The node type
<i>Is-active-cp</i>	Indicates whether the control processor is active or not
<i>application-name</i>	Name of the application
<i>primary-version</i>	Indicates the primary version
<i>secondary-version</i>	Indicates the secondary version

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/show-firmware-version
```

#### Request body

```
<show-firmware-version></show-firmware-version>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-firmware-ext'>
```

## 4 Operational APIs

```
<show-firmware-version>
  <switchid>1</switchid>
  <os-name>Network Operating System Software</os-name>
  <os-version>5.0.0</os-version>
  <copy-right-info>Copyright (c) 1995-2014 Brocade Communications Systems,
Inc.</copy-right-info>
  <build-time>Mon May 19 08:05:08 2014</build-time>
  <firmware-full-version>5.0.0pkadu_nos5.0.0_pit_a_03_0518_041429</firmware-fu
ll-version>
  <control-processor-vendor>Freescale Semiconductor</control-processor-vendor>
  <control-processor-chipset>P4080E</control-processor-chipset>
  <control-processor-memory>7168 MB</control-processor-memory>
  <node-info>
    <slot-no>1</slot-no>
    <node-instance-no>0</node-instance-no>
    <node-type>type-mm</node-type>
    <is-active-cp>true</is-active-cp>
    <firmware-version-info>
      <application-name>NOS</application-name>
      <primary-version>5.0.0pkadu_nos5.0.0_pit_a_03_0518_041429</primary-versi
on>
      <secondary-version>5.0.0pkadu_nos5.0.0_pit_a_03_0518_041429</secondary-v
ersion>
    </firmware-version-info>
  </node-info>
</show-firmware-version>
</output>
```

### *History*

Release version	History
5.0.0	The API call was introduced.



## show-linkinfo

Retrieves details of all the links connected in the fabric.

### Resource URIs

URI	Description
<base_URI>/operational-state/show-linkinfo	Retrieves details of all the links connected in the fabric

### Parameters

Name	Description
<i>linkinfo-rbridgeid</i>	The RBridge ID of the node in the fabric
<i>linkinfo-domain-reachable</i>	Indicates whether the RBridge is reachable or not
<i>linkinfo-version</i>	The FSPF version
<i>linkinfo-wwn</i>	The WWN of the switch

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

`http://host:80/rest/operational-state/show-linkinfo`

#### Request body

```
<show-linkinfo></show-linkinfo>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-fabric-service'>
  <show-link-info>
    <linkinfo-rbridgeid>1</linkinfo-rbridgeid>
    <linkinfo-domain-reachable>Yes</linkinfo-domain-reachable>
    <linkinfo-version>1</linkinfo-version>
    <linkinfo-wwn>10:00:00:27:F8:54:4F:98</linkinfo-wwn>
  </show-link-info>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## show-ntp

Retrieves NTP server information.

### *Resource URIs*

URI	Description
<base_URI>/operational-state/show-ntp	Retrieves NTP server information

### *Parameters*

Name	Description
<i>rbridge-id-out</i>	The RBridge ID
<i>LOCL</i>	Indicates whether the LOCL is true or false

### *Usage guidelines*

Only POST operation is supported.

### *Examples*

#### URI

http://host:80/rest/operational-state/show-ntp

#### Request body

```
<show-ntp></show-ntp>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-ntp'>
  <node-active-server>
    <rbridge-id-out>3</rbridge-id-out>
    <LOCL>true</LOCL>
  </node-active-server>
</output>
```

### *History*

Release version	History
5.0.0	The API call was introduced.

## show-portindex-interface-info

Retrieves the details of physical interfaces and FibreChannel over Ethernet (FCoE) ports.

### Resource URIs

URI	Description
<base_URI>/operational-state/show-portindex-interface-info	Retrieves the details of physical interfaces and Fibre Channel over Ethernet (FCoE) ports

### Parameters

Name	Description
<i>portsgroup-rbridgeid</i>	The RBridge ID of the switch in the cluster
<i>port-index</i>	The port index of the RBridge
<i>port-interface</i>	The port index interface of the RBridge
<i>port-type</i>	The port type of the RBridge

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

`http://host:80/rest/operational-state/show-portindex-interface-info`

#### Request body

```
<show-portindex-interface-info></show-portindex-interface-info>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-fabric-service'>
  <show-portindex-interface>
    <portsgroup-rbridgeid>1</portsgroup-rbridgeid>
    <show-portindex>
      <port-index>0</port-index>
      <port-interface>1/1/1</port-interface>
      <port-type>Te</port-type>
    </show-portindex>
  </show-portindex-interface>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## show-raslog

Retrieves the entries of RASLOG.

### Resource URIs

URI	Description
<base_URI>/operational-state/show-raslog	Retrieves the entries of RASLOG

### Parameters

Name	Description
<i>rbridge-id</i>	The RBridge ID
<i>number-of-entries</i>	The number of recent events to be fetched from the RASLOG entries
<i>index</i>	The sequence number for the message
<i>message-id</i>	The message identifier
<i>date-and-time-info</i>	The date and time of the message. The format is: YYYY-MM-DD/HH:MM:SS.SSSS (micro seconds)
<i>severity</i>	The severity of the message. Valid values include: INFO, WARNING, ERROR, and CRITICAL
<i>log-type</i>	Specifies if the message is a SYSTEM or DCE log
<i>repeat-count</i>	The number of times the particular event has occurred
<i>message</i>	The textual description of the event
<i>message-flag</i>	The type of the message
<i>switch-or-chassis-name</i>	The switch name for the generator of the message, or chassis

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/show-raslog

#### Request body

```
<show-raslog></show-raslog>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-ras-ext'>
  <show-all-raslog>
    <rbridge-id>1</rbridge-id>
    <number-of-entries>1151</number-of-entries>
    <raslog-entries>
      <index>1</index>
      <message-id>HASM-1004</message-id>
```

```

    <date-and-time-info>2014/05/08-16:08:21:48</date-and-time-info>
    <severity>informational</severity>
    <log-type>system</log-type>
    <repeat-count>1</repeat-count>
    <message>Processor reloaded - Reset.</message>
    <message-flag>unknown</message-flag>
    <switch-or-chassis-name>VDX8770-4</switch-or-chassis-name>
  </raslog-entries>
</show-all-raslog>
</output>

```

The API can be used to retrieve some number of last entries by providing the following tags as in the request body below.

### Request body

```

<show-raslog xmlns="urn:brocade.com:mgmt:brocade-ras-ext">
  <number-of-latest-events>N</number-of-latest-events>
</show-raslog>

```

### Response body

```

<output xmlns='urn:brocade.com:mgmt:brocade-ras-ext'>
  <show-all-raslog>
    <rbridge-id>14</rbridge-id>
    <number-of-entries>1</number-of-entries>
    <raslog-entries>
      <index>10437</index>
      <message-id>SEC-1206</message-id>
      <date-and-time-info>2015/01/12-10:15:22:49</date-and-time-info>
      <severity>informational</severity>
      <log-type>system</log-type>
      <repeat-count>1</repeat-count>
      <message>Login information: User [admin] Last Successful Login Time : Mon
Jan 12 10:15:12 2015.</message>
      <message-flag>unknown</message-flag>
      <switch-or-chassis-name>VDX8770-4</switch-or-chassis-name>
    </raslog-entries>
  </show-all-raslog>
</output>

```

## History

Release version	History
5.0.0	The API call was introduced.
6.0.0	Added an example.

## show-support-save-status

Retrieves the information on the status of a recent support save request.

### Resource URIs

URI	Description
<base_URI>/operational-state/show-support-save-status	Retrieves the information on the status of a recent support save request

### Parameters

Name	Description
<i>rbridge-id</i>	The RBridge ID
<i>status</i>	The status of recent support save
<i>message</i>	The textual description of status of recent support save
<i>percentage-of-completion</i>	The value of percentage of completion

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

`http://host:80/rest/operational-state/show-support-save-status`

#### Request body

```
<show-support-save-status></show-support-save-status>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-ras-ext'>
  <show-support-save-status>
    <rbridge-id>54</rbridge-id>
    <status>unknown</status>
    <message>supportsave is not running.</message>
    <percentage-of-completion>0</percentage-of-completion>
  </show-support-save-status>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## show-system-info

Retrieves the system information.

### Resource URIs

URI	Description
<base_URI>/operational-state/show-system-info	Retrieves the system information

### Parameters

Name	Description
<i>rbridge-id-out</i>	The RBridge ID
<i>stack-mac</i>	The MAC address of the switch

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/show-system-info
```

#### Request body

```
<show-system-info></show-system-info>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-ras-ext'>
  <show-system-info>
    <rbridge-id>54</rbridge-id>
    <stack-mac>00:05:33:65:2b:4d</stack-mac>
  </show-system-info>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## show-system-monitor

Retrieves the overall status for a selected switch.

### Resource URIs

URI	Description
<base_URI>/operational-state/show-system-monitor	Retrieves the overall status for a selected switch

### Parameters

Name	Description
<i>rbridge-id-out</i>	The RBridge ID
<i>switch-name</i>	The name of the switch
<i>switch-ip</i>	The IP address of the switch
<i>switch-state</i>	Switch status based on components
<i>switch-state-reason</i>	The component reason for switch status
<i>report-time</i>	The switch report time stamp
<i>component-name</i>	The component name
<i>component-state</i>	The component status based on thresholds
<i>port-area</i>	Port identifier
<i>port-name</i>	Port name
<i>port-state</i>	Port state

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

http://host:80/rest/operational-state/show-system-monitor

#### Request body

```
<show-system-monitor></show-system-monitor>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-system-monitor-ext'>
  <switch-status>
    <rbridge-id-out>195</rbridge-id-out>
    <switch-name>sw0</switch-name>
    <switch-ip>10.24.81.195</switch-ip>
    <switch-state>state-marginal</switch-state>
    <switch-state-reason>Switch Status is MARGINAL. Contributors:* MM
non-redundant: (M2). (MARGINAL).</switch-state-reason>
    <report-time>2014-06-11T09:40:21+00:00</report-time>
```



```
<component-status>
  <component-name>Power supplies monitor</component-name>
  <component-state>state-healthy</component-state>
</component-status>
</switch-status>
</output>
```

### *History*

Release version	History
5.0.0	The API call was introduced.

## show-vcs

Retrieves the VCS information.

### Resource URIs

URI	Description
<base_URI>/operational-state/show-vcs	Retrieves the VCS information

### Parameters

Name	Description
<i>vcs-cluster-type-info</i>	VCS type
<i>vcs-guid</i>	The VCS cluster GUID
<i>virtual-ip-address</i>	The cluster virtual IP address
<i>principal-switch-wwn</i>	VCS Cluster principal switch WWN
<i>co-ordinator-wwn</i>	The VCS cluster coordinator node WWN
<i>total-nodes-in-cluster</i>	The total number of nodes in cluster
<i>nodes-disconnected-from-cluster</i>	The number of nodes disconnected from cluster
<i>cluster-generic-status</i>	The cluster generic status
<i>cluster-specific-status</i>	The cluster specific status
<i>node-num</i>	The node number
<i>node-serial-num</i>	The serial number
<i>node-condition</i>	The node condition
<i>node-status</i>	The node status
<i>node-vcs-mode</i>	The node's VCS mode
<i>node-vcs-id</i>	The node VCS ID
<i>node-rbridge-id</i>	The node RBridge ID
<i>node-is-principal</i>	Indicates if the node is management cluster principal
<i>node-co-ordinator</i>	Indicates if the node is management cluster coordinator
<i>node-switch-mac</i>	The node switch MAC address
<i>node-switch-wwn</i>	The node switch WWN
<i>switch-fcf-mac</i>	The node FCF MAC address
<i>node-internal-ip-address</i>	The node internal IP address
<i>node-public-ip-address</i>	The node public IP address
<i>node-public-ipv6-address</i>	The node public IPv6 address
<i>node-swbd-number</i>	The node SWBD number
<i>firmware-version</i>	The node firmware version

Name	Description
<code>node-switchname</code>	The node switch name
<code>node-fabric-state</code>	The Fabric node state

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

`http://host:80/rest/operational-state/show-vcs`

#### Request body

```
<show-vcs></show-vcs>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-vcs'>
  <vcs-cluster-type-info>vcs-management-cluster</vcs-cluster-type-info>
  <vcs-guid>00000000000000000000000000000000</vcs-guid>
  <virtual-ip-address>NULL</virtual-ip-address>
  <principal-switch-wwn>10:00:00:27:F8:54:4F:98</principal-switch-wwn>
  <co-ordinator-wwn>10:00:00:27:F8:54:4F:98</co-ordinator-wwn>
  <total-nodes-in-cluster>1</total-nodes-in-cluster>
  <nodes-disconnected-from-cluster>0</nodes-disconnected-from-cluster>
  <cluster-generic-status>Good</cluster-generic-status>
  <cluster-specific-status>All Nodes Present in the
Cluster</cluster-specific-status>
  <vcs-nodes>
    <vcs-node-info>
      <node-num>1</node-num>
      <node-serial-num>CDU2507J00D</node-serial-num>
      <node-condition>Good</node-condition>
      <node-status>Co-ordinator</node-status>
      <node-vcs-mode>Enabled</node-vcs-mode>
      <node-vcs-id>1</node-vcs-id>
      <node-rbridge-id>1</node-rbridge-id>
      <node-is-principal>true</node-is-principal>
      <co-ordinator>true</co-ordinator>
      <node-switch-mac>00:27:f8:54:50:19</node-switch-mac>
      <node-switch-wwn>10:00:00:27:F8:54:4F:98</node-switch-wwn>
      <switch-fcf-mac>00:27:f8:54:4f:98</switch-fcf-mac>
      <node-internal-ip-address>127.1.0.1</node-internal-ip-address>
      <node-public-ip-addresses>
        <node-public-ip-address>10.24.81.195</node-public-ip-address>
      </node-public-ip-addresses>
      <node-public-ipv6-addresses>
      </node-public-ipv6-addresses>
      <node-swbd-number>1000</node-swbd-number>
      <firmware-version>v5.0.0nos5.0.0_pit_a_140518_1800</firmware-version>
      <node-switchname>sw0</node-switchname>
      <node-state>Online</node-state>
      <node-fabric-state>Online</node-fabric-state>
    </vcs-node-info>
  </vcs-nodes>
</output>
```

## 4 Operational APIs

</output>

### *History*

Release version	History
5.0.0	The API call was introduced.

## show-zoning-enabled-configuration

Retrieves zoning-enabled configuration information.

### Resource URIs

URI	Description
<base_URI>/operational-state/show-zoning-enabled-configuration	Retrieves zoning-enabled configuration information

### Parameters

Name	Description
<i>cfg-name</i>	The name of the zone configuration
<i>zone-name</i>	The name of a zone to be added to the configuration
<i>entry-name</i>	The WWN of the device

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/show-zoning-enabled-configuration
```

#### Request body

```
<show-zoning-enabled-configuration></show-zoning-enabled-configuration>
```

#### Response body

```
<output xmlns='urn:brocade.com:mgmt:brocade-zone'>
  <enabled-configuration>
    <cfg-name></cfg-name>
    <has-more>>false</has-more>
  </enabled-configuration>
</output>
```

### History

Release version	History
5.0.0	The API call was introduced.

## vcs-rbridge-config

Retrieves the VCS ID and Rbridge ID in the DUT.

### *Resource URIs*

URI	Description
<base_URI>/operational-state/vcs-rbridge-config	Retrieves the VCS ID and Rbridge ID in the DUT

### *Parameters*

Name	Description
vcs-id	VCS ID
rbridge-id	The RBridge ID

### *Usage guidelines*

Only POST operation is supported.

### *Examples*

#### URI

http://host:80/rest/operational-state/vcs-rbridge-config

#### Request body

```
<vcs-rbridge-config>
  <vcs-id>50</vcs-id>
  <rbridge-id>4</rbridge-id>
</vcs-rbridge-config>
```

#### Response body

None

### *History*

Release version	History
6.0.1	The API call was introduced.

## vcs-rbridge-context

Sets VCS Fabric mode for a given routing bridge.

### Resource URIs

URI	Description
<base_URI>/operational-state/vcs-rbridge-context	Sets VCS Fabric mode for a given routing bridge.

### Parameters

Name	Description
rbridge-id	The RBridge ID

### Usage guidelines

Only POST operation is supported.

### Examples

#### URI

```
http://host:80/rest/operational-state/vcs-rbridge-context
```

#### Request body

```
<vcs-rbridge-context>
  <rbridge-id>2</rbridge-id>
</vcs-rbridge-context>
```

#### Response body

None

### History

Release version	History
5.0.0	The API call was introduced.

## 4 Operational APIs