

53-1004082-01  
12 February 2016

# Network OS NETCONF

---

## Operations Guide

Supporting Network OS 7.0.0

**BROCADE** 

**© 2016, Brocade Communications Systems, Inc. All Rights Reserved.**

Brocade, Brocade Assurance, the B-wing symbol, ClearLink, DCX, Fabric OS, HyperEdge, ICX, MLX, MyBrocade, OpenScript, VCS, VDX, Vplane, and Vyatta are registered trademarks, and Fabric Vision is a trademark 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>.

# Contents

---

|   |           |
|---|-----------|
| <b>Preface.....</b>                                       | <b>31</b> |
| Document conventions.....                                 | 31        |
| Text formatting conventions.....                          | 31        |
| Command syntax conventions.....                           | 31        |
| Notes, cautions, and warnings.....                        | 32        |
| Brocade resources.....                                    | 33        |
| Contacting Brocade Technical Support.....                 | 33        |
| Document feedback.....                                    | 34        |
| <br>  |           |
| <b>About This Document.....</b>                           | <b>35</b> |
| Supported hardware and software.....                      | 35        |
| Using the Network OS CLI.....                             | 35        |
| What's new in this document.....                          | 36        |
| <br>  |           |
| <b>NETCONF Overview.....</b>                              | <b>39</b> |
| NETCONF and YANG.....                                     | 39        |
| NETCONF in client/server architecture.....                | 39        |
| RPC request.....  | 40        |
| RPC reply.....  | 40        |
| RPC and error handling.....                               | 40        |
| SSH subsystem.....  | 41        |
| RFC references.....                                       | 41        |
| NETCONF support in Network OS.....                        | 41        |
| <br>  |           |
| <b>Using NETCONF.....</b>                                 | <b>43</b> |
| Establishing a NETCONF session.....                       | 43        |
| Hello messages exchange.....                              | 43        |
| Server capabilities.....                                  | 44        |
| Client capabilities.....                                  | 45        |
| Retrieving configuration data.....                        | 45        |
| Subtree filtering.....                                    | 46        |
| xpath filtering.....                                      | 47        |
| Retrieving operational data.....                          | 48        |
| Using custom RPCs.....                                    | 48        |
| Using the custom action mechanism.....                    | 50        |
| Editing the configuration.....                            | 51        |
| Managing the configuration.....                           | 52        |
| Disconnecting from a NETCONF session.....                 | 53        |
| <br>  |           |
| <b>Basic switch management with NETCONF overview.....</b> | <b>55</b> |
| Connecting to the switch through an SSH session.....      | 55        |
| <br>  |           |
| <b>Sample use cases for Network OS NETCONF.....</b>       | <b>57</b> |
| VRF configuration.....                                    | 57        |
| Configuring VRF.....                                      | 57        |

|                       |    |
|-----------------------|----|
| STP overview.....     | 58 |
| Configuring STP.....  | 59 |
| Configuring RSTP..... | 60 |

**NETCONF Commands.....61**

|  |     |
|--|-----|
| aaa/accounting/commands.....   | 62  |
| aaa/accounting/exec.....   | 63  |
| aaa/authentication.....  | 64  |
| alias-config/alias.....  | 66  |
| alias-config/user.....   | 67  |
| arp.....   | 68  |
| arp/access-list/{access-list-name}/permit.....                             | 69  |
| banner/incoming.....   | 70  |
| banner/login.....  | 71  |
| banner/motd.....   | 72  |
| cee-map.....   | 73  |
| cee-map/{cee-map-name}/precedence.....                                     | 74  |
| cee-map/{cee-map-name}/priority-group-table.....                           | 75  |
| cee-map/{cee-map-name}/priority-table.....                                 | 76  |
| cee-map/{cee-map-name}/remap/fabric-priority.....                          | 77  |
| cee-map/{cee-map-name}/remap/lossless-priority.....                        | 78  |
| class-map.....   | 79  |
| class-map/{class-map-name}/match.....                                      | 80  |
| diag/post/rbridge-id/{rbridge-id}/enable.....                              | 81  |
| dot1x/enable.....  | 82  |
| dot1x/test.....  | 83  |
| dpod/{dpod-port}/reserve.....  | 84  |
| event-handler.....   | 85  |
| event-handler/{event-handler-name}/action.....                             | 86  |
| event-handler/{event-handler-name}/description.....                        | 87  |
| event-handler/{event-handler-name}/trigger/{trigger-id}/raslog.....        | 88  |
| event-handler/{event-handler-name}/trigger/{trigger-id}/vcs.....           | 89  |
| fabric.....  | 90  |
| fcoe/fabric-map.....   | 91  |
| fcoe/fabric-name/{fabric-map-name}/advertisement.....                      | 92  |
| fcoe/fabric-map/{fabric-map-name}/fcf-group.....                           | 93  |
| fcoe/fabric-map/{fabric-map-name}/fcf-group/{fcf-group-name}/fcf-rbid..... | 94  |
| fcoe/fabric-map/{fabric-map-name}/fcf-group/{fcf-group-name}/fif-rbid..... | 95  |
| fcoe/fabric-map/{fabric-map-name}/fcmap.....                               | 96  |
| fcoe/fabric-map/{fabric-map-name}/fcport-group/fcport-group-rbid.....      | 97  |
| fcoe/fabric-map/{fabric-map-name}/keep-alive.....                          | 98  |
| fcoe/fabric-map/{fabric-map-name}/priority.....                            | 99  |
| fcoe/fabric-map/{fabric-map-name}/san-mode.....                            | 100 |
| fcoe/fabric-map/{fabric-map-name}/virtual-fabric.....                      | 101 |
| fcoe/fabric-map/{fabric-map-name}/vlan.....                                | 102 |
| hardware/connector.....  | 103 |
| hardware/connector/{connector-name}/sfp.....                               | 104 |
| hardware/connector-group.....  | 105 |
| hardware/connector-group/{connector-group-name}/speed.....                 | 106 |
| hardware/custom-profile.....   | 107 |
| hardware/custom-profile/{profile-name}/bfd-l3.....                         | 108 |
| hardware/custom-profile/{profile-name}/bfd-vxlan.....                      | 109 |
| hardware/custom-profile/{profile-name}/fcoe.....                           | 110 |
| hardware/custom-profile/{profile-name}/lACP.....                           | 111 |
| hardware/custom-profile/{profile-name}/rpvst.....                          | 112 |
| hardware/custom-profile/{profile-name}/udld.....                           | 113 |
| hardware/custom-profile/{profile-name}/xstp.....                           | 114 |

|  |     |
|--|-----|
| hardware/flexport.....   | 115 |
| hardware/flexport/{flexport-name}/type.....  | 116 |
| interface/foe/{fcoe-port}/bind.....  | 117 |
| interface/fibrechannel/{fc-port-name}/fec-enable.....  | 118 |
| interface/fibrechannel/{fc-port-name}/isl-r_rdy.....   | 119 |
| interface/fibrechannel/{fc-port-name}/speed.....   | 120 |
| interface/fibrechannel/{fc-port-name}/trunk-enable.....                                      | 121 |
| interface/management.....  | 122 |
| interface/port-channel/{pc-name}/esi/auto.....   | 123 |
| interface/port-channel/{pc-name}/ip/address.....   | 124 |
| interface/port-channel/{pc-name}/ipv6/address.....   | 125 |
| interface/port-channel/{pc-name}/ipv6/address/{ipv6-address}/anycast.....                    | 126 |
| interface/port-channel/{pc-name}/ipv6/address/{ipv6-address}/link-local.....                 | 127 |
| interface/port-channel/{pc-name}/ipv6/address/use-link-local-only.....                       | 128 |
| interface/port-channel/{pc-name}/load-balance.....   | 129 |
| interface/port-channel/{pc-name}/minimum-links.....  | 130 |
| interface/port-channel/{pc-name}/speed.....  | 131 |
| interface/port-channel/{pc-name}/vlag.....   | 132 |
| interface/tengigabitethernet.....  | 133 |
| interface/{interface-type}/{interface-name}/bfd/interval.....                                | 134 |
| interface/{interface-type}/{interface-name}/bfd/shutdown.....                                | 135 |
| interface/{interface-type}/{interface-name}/bpdu-drop/enable.....                            | 136 |
| interface/{interface-type}/{interface-name}/cee.....   | 137 |
| interface/{interface-type}/{interface-name}/channel-group.....                               | 138 |
| interface/{interface-type}/{interface-name}/description.....                                 | 139 |
| interface/{interface-type}/{interface-name}/deviceconnectivity.....                          | 140 |
| interface/{interface-type}/{interface-name}/dot1x/authentication.....                        | 141 |
| interface/{interface-type}/{interface-name}/dot1x/port-control.....                          | 142 |
| interface/{interface-type}/{interface-name}/dot1x/protocol-version.....                      | 143 |
| interface/{interface-type}/{interface-name}/dot1x/quiet-period.....                          | 144 |
| interface/{interface-type}/{interface-name}/dot1x/reauthentication.....                      | 145 |
| interface/{interface-type}/{interface-name}/dot1x/reauthmax.....                             | 146 |
| interface/{interface-type}/{interface-name}/dot1x/timeout/re-authperiod.....                 | 147 |
| interface/{interface-type}/{interface-name}/dot1x/timeout/server-timeout.....                | 148 |
| interface/{interface-type}/{interface-name}/dot1x/timeout/supp-timeout.....                  | 149 |
| interface/{interface-type}/{interface-name}/dot1x/timeout/tx-period.....                     | 150 |
| interface/{interface-type}/{interface-name}/edge-loop-detection/port-<br>priority.....       | 151 |
| interface/{interface-type}/{interface-name}/edge-loop-detection/vlan.....                    | 152 |
| interface/{interface-type}/{interface-name}/fabric/dport/mode.....                           | 153 |
| interface/{interface-type}/{interface-name}/fabric/isl.....                                  | 154 |
| interface/{interface-type}/{interface-name}/fabric/neighbor-discovery.....                   | 155 |
| interface/{interface-type}/{interface-name}/fabric/trunk.....                                | 156 |
| interface/{interface-type}/{interface-name}/fcoeport.....                                    | 157 |
| interface/{interface-type}/{interface-name}/fcoeport/{port-name}/ns-ip-<br>registration..... | 158 |
| interface/{interface-type}/{interface-name}/ip/access-group.....                             | 159 |
| interface/{interface-type}/{interface-name}/ip/address.....                                  | 160 |
| interface/{interface-type}/{interface-name}/ip/arp.....                                      | 161 |
| interface/{interface-type}/{interface-name}/ip/arp/learn-any.....                            | 162 |
| interface/{interface-type}/{interface-name}/ip/arp-aging-timeout.....                        | 163 |
| interface/{interface-type}/{interface-name}/ip/dhcp/relay/address.....                       | 164 |
| interface/{interface-type}/{interface-name}/ip/dhcp/relay/gateway.....                       | 165 |
| interface/{interface-type}/{interface-name}/ip/directed-broadcast.....                       | 166 |
| interface/{interface-type}/{interface-name}/ip/icmp/address-mask.....                        | 167 |
| interface/{interface-type}/{interface-name}/ip/icmp/echo-reply.....                          | 168 |
| interface/{interface-type}/{interface-name}/ip/icmp/rate-limiting.....                       | 169 |
| interface/{interface-type}/{interface-name}/ip/icmp/redirect.....                            | 170 |

|  |     |
|--|-----|
| interface/{interface-type}/{interface-name}/ip/icmp/unreachable.....                                     | 171 |
| interface/{interface-type}/{interface-name}/ip/igmp/immediate-leave.....                                 | 172 |
| interface/{interface-type}/{interface-name}/ip/igmp/last-member-query-<br>count.....                     | 173 |
| interface/{interface-type}/{interface-name}/ip/igmp/last-member-query-<br>interval.....                  | 174 |
| interface/{interface-type}/{interface-name}/ip/igmp/query-interval.....                                  | 175 |
| interface/{interface-type}/{interface-name}/ip/igmp/query-max-<br>response-time.....                     | 176 |
| interface/{interface-type}/{interface-name}/ip/igmp/robustness-variable.....                             | 177 |
| interface/{interface-type}/{interface-name}/ip/igmp/startup-query-count.....                             | 178 |
| interface/{interface-type}/{interface-name}/ip/igmp/startup-query-interval.....                          | 179 |
| interface/{interface-type}/{interface-name}/ip/mtu.....  | 180 |
| interface/{interface-type}/{interface-name}/ip/multicast-boundary.....                                   | 181 |
| interface/{interface-type}/{interface-name}/ip/ospf/active.....  | 182 |
| interface/{interface-type}/{interface-name}/ip/ospf/area.....  | 183 |
| interface/{interface-type}/{interface-name}/ip/ospf/auth-change-wait-time.....                           | 184 |
| interface/{interface-type}/{interface-name}/ip/ospf/authentication-key.....                              | 185 |
| interface/{interface-type}/{interface-name}/ip/ospf/bfd.....   | 186 |
| interface/{interface-type}/{interface-name}/ip/ospf/cost.....  | 187 |
| interface/{interface-type}/{interface-name}/ip/ospf/database-filter/all-<br>external.....                | 188 |
| interface/{interface-type}/{interface-name}/ip/ospf/database-filter/all-out... ..                        | 189 |
| interface/{interface-type}/{interface-name}/ip/ospf/database-filter/all-<br>summary.....                 | 190 |
| interface/{interface-type}/{interface-name}/ip/ospf/dead-interval.....                                   | 191 |
| interface/{interface-type}/{interface-name}/ip/ospf/hello-interval.....                                  | 192 |
| interface/{interface-type}/{interface-name}/ip/ospf/md5-authentication/<br>key-activation-wait-time..... | 193 |
| interface/{interface-type}/{interface-name}/ip/ospf/md5-authentication/<br>key-id.....                   | 194 |
| interface/{interface-type}/{interface-name}/ip/ospf/mtu-ignore.....                                      | 195 |
| interface/{interface-type}/{interface-name}/ip/ospf/network.....   | 196 |
| interface/{interface-type}/{interface-name}/ip/ospf/passive.....   | 197 |
| interface/{interface-type}/{interface-name}/ip/ospf/priority.....  | 198 |
| interface/{interface-type}/{interface-name}/ip/ospf/retransmit-interval.....                             | 199 |
| interface/{interface-type}/{interface-name}/ip/ospf/transmit-delay.....                                  | 200 |
| interface/{interface-type}/{interface-name}/ip/pim/dr-priority.....                                      | 201 |
| interface/{interface-type}/{interface-name}/ip/pim/neighbor-filter.....                                  | 202 |
| interface/{interface-type}/{interface-name}/ip/pim-sparse.....   | 203 |
| interface/{interface-type}/{interface-name}/ip/policy.....   | 204 |
| interface/{interface-type}/{interface-name}/ip/proxy-arp.....  | 205 |
| interface/{interface-type}/{interface-name}/ip/unnnumbered.....  | 206 |
| interface/{interface-type}/{interface-name}/ipv6/access-group.....                                       | 207 |
| interface/{interface-type}/{interface-name}/ipv6/address/{ipv6-address}/<br>anycast.....                 | 208 |
| interface/{interface-type}/{interface-name}/ipv6/address/{ipv6-address}/<br>eui64.....                   | 209 |
| interface/{interface-type}/{interface-name}/ipv6/address/{ipv6-address}/<br>link-local.....              | 210 |
| interface/{interface-type}/{interface-name}/ipv6/address/use-link-local-<br>only.....                    | 211 |
| interface/{interface-type}/{interface-name}/ipv6/dhcp/relay/address.....                                 | 212 |
| interface/{interface-type}/{interface-name}/ipv6/hop-by-hop-trap.....                                    | 213 |
| interface/{interface-type}/{interface-name}/ipv6/icmpv6/echo-reply.....                                  | 214 |
| interface/{interface-type}/{interface-name}/ipv6/icmpv6/rate-limiting.....                               | 215 |
| interface/{interface-type}/{interface-name}/ipv6/icmpv6/redirect.....                                    | 216 |
| interface/{interface-type}/{interface-name}/ipv6/icmpv6/unreachable.....                                 | 217 |

|   |     |
|---|-----|
| interface/{interface-type}/{interface-name}/ipv6/mtu.....   | 218 |
| interface/{interface-type}/{interface-name}/ipv6/nd/broadcast-mac-trap.....                                 | 219 |
| interface/{interface-type}/{interface-name}/ipv6/nd/cache.....  | 220 |
| interface/{interface-type}/{interface-name}/ipv6/nd/dad.....  | 221 |
| interface/{interface-type}/{interface-name}/ipv6/nd/hoplimit.....   | 222 |
| interface/{interface-type}/{interface-name}/ipv6/nd/managed-config-flag.....                                | 223 |
| interface/{interface-type}/{interface-name}/ipv6/nd/mtu.....  | 224 |
| interface/{interface-type}/{interface-name}/ipv6/nd/ns-interval.....  | 225 |
| interface/{interface-type}/{interface-name}/ipv6/nd/other-config-flag.....                                  | 226 |
| interface/{interface-type}/{interface-name}/ipv6/nd/prefix.....   | 227 |
| interface/{interface-type}/{interface-name}/ipv6/nd/ra-interval.....  | 228 |
| interface/{interface-type}/{interface-name}/ipv6/nd/ra-lifetime.....  | 229 |
| interface/{interface-type}/{interface-name}/ipv6/nd/reachable-time.....                                     | 230 |
| interface/{interface-type}/{interface-name}/ipv6/nd/retrans-timer.....                                      | 231 |
| interface/{interface-type}/{interface-name}/ipv6/nd/suppress-ra.....  | 232 |
| interface/{interface-type}/{interface-name}/ipv6/ospf/active.....   | 233 |
| interface/{interface-type}/{interface-name}/ipv6/ospf/area.....   | 234 |
| interface/{interface-type}/{interface-name}/ipv6/ospf/authentication/ipsec/<br>disable.....                 | 235 |
| interface/{interface-type}/{interface-name}/ipv6/ospf/authentication/ipsec/<br>key-add-remove-interval..... | 236 |
| interface/{interface-type}/{interface-name}/ipv6/ospf/authentication/spi.....                               | 237 |
| interface/{interface-type}/{interface-name}/ipv6/ospf/bfd.....  | 238 |
| interface/{interface-type}/{interface-name}/ipv6/ospf/cost.....   | 239 |
| interface/{interface-type}/{interface-name}/ipv6/ospf/dead-interval.....                                    | 240 |
| interface/{interface-type}/{interface-name}/ipv6/ospf/hello-interval.....                                   | 241 |
| interface/{interface-type}/{interface-name}/ipv6/ospf/hello-jitter.....                                     | 242 |
| interface/{interface-type}/{interface-name}/ipv6/ospf/instance.....   | 243 |
| interface/{interface-type}/{interface-name}/ipv6/ospf/mtu-ignore.....                                       | 244 |
| interface/{interface-type}/{interface-name}/ipv6/ospf/network.....  | 245 |
| interface/{interface-type}/{interface-name}/ipv6/ospf/passive.....  | 246 |
| interface/{interface-type}/{interface-name}/ipv6/ospf/priority.....   | 247 |
| interface/{interface-type}/{interface-name}/ipv6/ospf/retransmit-interval.....                              | 248 |
| interface/{interface-type}/{interface-name}/ipv6/ospf/suppress-linklsa.....                                 | 249 |
| interface/{interface-type}/{interface-name}/ipv6/ospf/transmit-delay.....                                   | 250 |
| interface/{interface-type}/{interface-name}/ipv6/policy.....  | 251 |
| interface/{interface-type}/{interface-name}/ipv6/raguard.....   | 252 |
| interface/{interface-type}/{interface-name}/ipv6/vrrp-suppress-interface-ra.....                            | 253 |
| interface/{interface-type}/{interface-name}/lacp/default-up.....  | 254 |
| interface/{interface-type}/{interface-name}/lacp/port-priority.....   | 255 |
| interface/{interface-type}/{interface-name}/lacp/timeout.....   | 256 |
| interface/{interface-type}/{interface-name}/lldp/dcbx-version.....  | 257 |
| interface/{interface-type}/{interface-name}/lldp/disable.....   | 258 |
| interface/{interface-type}/{interface-name}/lldp/profile.....   | 259 |
| interface/{interface-type}/{interface-name}/lldp/iscsi-priority.....  | 260 |
| interface/{interface-type}/{interface-name}/long-distance-isl.....  | 261 |
| interface/{interface-type}/{interface-name}/mac/access-group.....   | 262 |
| interface/{interface-type}/{interface-name}/mac-learning/disable/vlan/add...<br>remove.....                 | 263 |
| interface/{interface-type}/{interface-name}/mac-learning/disable/vlan/<br>remove.....                       | 264 |
| interface/{interface-type}/{interface-name}/mtu.....  | 265 |
| interface/{interface-type}/{interface-name}/openflow/enable.....  | 266 |
| interface/{interface-type}/{interface-name}/openflow/logical-instance.....                                  | 267 |
| interface/{interface-type}/{interface-name}/port-profile-port.....  | 268 |
| interface/{interface-type}/{interface-name}/port-profile-port/restrict-flooding.....                        | 269 |
| interface/{interface-type}/{interface-name}/priority-tag.....   | 270 |
| interface/{interface-type}/{interface-name}/qos/cos.....  | 271 |
| interface/{interface-type}/{interface-name}/qos/cos-mutation.....   | 272 |

|   |     |
|---|-----|
| interface/{interface-type}/{interface-name}/qos/drop-monitor/enable.....  | 273 |
| interface/{interface-type}/{interface-name}/qos/dscp-cos.....   | 274 |
| interface/{interface-type}/{interface-name}/qos/dscp-mutation.....  | 275 |
| interface/{interface-type}/{interface-name}/qos/dscp-traffic-class.....   | 276 |
| interface/{interface-type}/{interface-name}/qos/flowcontrol.....  | 277 |
| interface/{interface-type}/{interface-name}/qos/random-detect/traffic-<br>class/{traffic-class-value}/red-profile-id..... | 278 |
| interface/{interface-type}/{interface-name}/rmon/collection/history.....  | 279 |
| interface/{interface-type}/{interface-name}/rmon/collection/stats.....  | 280 |
| interface/{interface-type}/{interface-name}/service-policy.....   | 281 |
| interface/{interface-type}/{interface-name}/sflow/enable.....   | 282 |
| interface/{interface-type}/{interface-name}/sflow/polling-interval.....   | 283 |
| interface/{interface-type}/{interface-name}/sflow/sample-rate.....  | 284 |
| interface/{interface-type}/{interface-name}/shutdown.....   | 285 |
| interface/{interface-type}/{interface-name}/snmp/trap/link-status.....  | 286 |
| interface/{interface-type}/{interface-name}/spanning-tree/autoedge.....   | 287 |
| interface/{interface-type}/{interface-name}/spanning-tree/bpdu-mac.....   | 288 |
| interface/{interface-type}/{interface-name}/spanning-tree/cost.....   | 289 |
| interface/{interface-type}/{interface-name}/spanning-tree/edgeport.....   | 290 |
| interface/{interface-type}/{interface-name}/spanning-tree/edgeport/<br>bpdu-filter.....                                   | 291 |
| interface/{interface-type}/{interface-name}/spanning-tree/edgeport/<br>bpdu-guard.....                                    | 292 |
| interface/{interface-type}/{interface-name}/spanning-tree/guard/root.....   | 293 |
| interface/{interface-type}/{interface-name}/spanning-tree/hello-time.....   | 294 |
| interface/{interface-type}/{interface-name}/spanning-tree/instance/<br>priority.....                                      | 295 |
| interface/{interface-type}/{interface-name}/spanning-tree/instance/cost.....  | 296 |
| interface/{interface-type}/{interface-name}/spanning-tree/instance/<br>restricted-role.....                               | 297 |
| interface/{interface-type}/{interface-name}/spanning-tree/instance/<br>restricted-tcn.....                                | 298 |
| interface/{interface-type}/{interface-name}/spanning-tree/link-type.....  | 299 |
| interface/{interface-type}/{interface-name}/spanning-tree/peer-switch.....  | 300 |
| interface/{interface-type}/{interface-name}/spanning-tree/portfast.....   | 301 |
| interface/{interface-type}/{interface-name}/spanning-tree/portfast/bpdu-<br>filter.....                                   | 302 |
| interface/{interface-type}/{interface-name}/spanning-tree/portfast/bpdu-<br>guard.....                                    | 303 |
| interface/{interface-type}/{interface-name}/spanning-tree/priority.....   | 304 |
| interface/{interface-type}/{interface-name}/spanning-tree/restricted-role.....  | 305 |
| interface/{interface-type}/{interface-name}/spanning-tree/restricted-tcn.....   | 306 |
| interface/{interface-type}/{interface-name}/spanning-tree/shutdown.....   | 307 |
| interface/{interface-type}/{interface-name}/spanning-tree/vlan.....   | 308 |
| interface/{interface-type}/{interface-name}/speed.....  | 309 |
| interface/{interface-type}/{interface-name}/storm-control/ingress.....  | 310 |
| interface/{interface-type}/{interface-name}/switchport.....   | 311 |
| interface/{interface-type}/{interface-name}/switchport/access.....  | 312 |
| interface/{interface-type}/{interface-name}/switchport/mode.....  | 313 |
| interface/{interface-type}/{interface-name}/switchport/mode/private-vlan...<br>default-native.....                        | 314 |
| interface/{interface-type}/{interface-name}/switchport/mode/trunk-no-<br>default-native.....                              | 315 |
| interface/{interface-type}/{interface-name}/switchport/port-security.....   | 316 |
| interface/{interface-type}/{interface-name}/switchport/port-security/mac-<br>address.....                                 | 317 |
| interface/{interface-type}/{interface-name}/switchport/port-security/max....  | 318 |
| interface/{interface-type}/{interface-name}/switchport/port-security/oui.....   | 319 |



|   |     |
|---|-----|
| interface/{interface-type}/{interface-name}/switchport/port-security/<br>shutdown-time.....     | 320 |
| interface/{interface-type}/{interface-name}/switchport/port-security/sticky.....                | 321 |
| interface/{interface-type}/{interface-name}/switchport/port-security/<br>violation.....         | 322 |
| interface/{interface-type}/{interface-name}/switchport/private-vlan/<br>association/trunk.....  | 323 |
| interface/{interface-type}/{interface-name}/switchport/private-vlan/host-<br>association.....   | 324 |
| interface/{interface-type}/{interface-name}/switchport/private-vlan/<br>mapping.....            | 325 |
| interface/{interface-type}/{interface-name}/switchport/private-vlan/trunk/<br>allowed/vlan..... | 326 |
| interface/{interface-type}/{interface-name}/switchport/private-vlan/trunk/<br>native-vlan.....  | 327 |
| interface/{interface-type}/{interface-name}/switchport/trunk/allowed/vlan/<br>rspan-vlan.....   | 328 |
| interface/{interface-type}/{interface-name}/switchport/trunk/native-vlan.....                   | 329 |
| interface/{interface-type}/{interface-name}/switchport/trunk/native-vlan-<br>untagged.....      | 330 |
| interface/{interface-type}/{interface-name}/switchport/trunk/native-vlan-<br>xtagged.....       | 331 |
| interface/{interface-type}/{interface-name}/switchport/trunk/tag/native-vlan.....               | 332 |
| interface/{interface-type}/{interface-name}/track/enable.....                                   | 333 |
| interface/{interface-type}/{interface-name}/track/interface.....                                | 334 |
| interface/{interface-type}/{interface-name}/track/min-link.....                                 | 335 |
| interface/{interface-type}/{interface-name}/tunable-optics.....                                 | 336 |
| interface/{interface-type}/{interface-name}/tunnel.....   | 337 |
| interface/{interface-type}/{interface-name}/udld/enable.....                                    | 338 |
| interface/{interface-type}/{interface-name}/vlan/classifier/activate/group.....                 | 339 |
| interface/{interface-type}/{interface-name}/vrf/forwarding.....                                 | 340 |
| interface/ve.....   | 341 |
| interface/ve/{vlan-id}/attach/rbridge-id.....   | 342 |
| interface/ve/{vlan-id}/ip/fabric-virtual-gateway.....   | 343 |
| interface/ve/{vlan-id}/ip/fabric-virtual-gateway/gateway-address.....                           | 344 |
| interface/ve/{vlan-id}/ip/fabric-virtual-gateway/gratuitous-arp/timer.....                      | 345 |
| interface/ve/{vlan-id}/ip/fabric-virtual-gateway/hold-time.....                                 | 346 |
| interface/ve/{vlan-id}/ip/fabric-virtual-gateway/load-balancing-disable.....                    | 347 |
| interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway.....   | 348 |
| interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway/gateway-address.....                         | 349 |
| interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway/gratuitous-arp/timer.....                    | 350 |
| interface/vlan.....   | 351 |
| interface/vlan/{vlan-number}/ip/arp/inspection.....   | 352 |
| interface/vlan/{vlan-number}/ip/arp/inspection/filter.....                                      | 353 |
| interface/vlan/{vlan-number}/ip/arp/inspection/logging/acl-match.....                           | 354 |
| interface/vlan/{vlan-number}/ip/igmp/snooping/enable.....                                       | 355 |
| interface/vlan/{vlan-number}/ip/igmp/snooping/fast-leave.....                                   | 356 |
| interface/vlan/{vlan-number}/ip/igmp/snooping/mrouter.....                                      | 357 |
| interface/vlan/{vlan-number}/ip/igmp/snooping/querier.....                                      | 358 |
| interface/vlan/{vlan-number}/ip/igmp/snooping/restrict-unknown-multicast.....                   | 359 |
| interface/vlan/{vlan-number}/ip/igmp/static-group.....  | 360 |
| interface/vlan/{vlan-number}/ipv6/mld/last-member-query-count.....                              | 361 |
| interface/vlan/{vlan-number}/ipv6/mld/last-member-query-interval.....                           | 362 |
| interface/vlan/{vlan-number}/ipv6/mld/query-interval.....                                       | 363 |
| interface/vlan/{vlan-number}/ipv6/mld/query-max-response-time.....                              | 364 |
| interface/vlan/{vlan-number}/ipv6/mld/snooping/enable.....                                      | 365 |
| interface/vlan/{vlan-number}/ipv6/mld/snooping/fast-leave.....                                  | 366 |
| interface/vlan/{vlan-number}/ipv6/mld/snooping/mrouter.....                                     | 367 |

|   |     |
|---|-----|
| interface/vlan/{vlan-number}/ipv6/mld/snooping/querier.....                             | 368 |
| interface/vlan/{vlan-number}/ipv6/mld/snooping/restrict-unknown-<br>multicast-vlan..... | 369 |
| interface/vlan/{vlan-number}/ipv6/mld/snooping/robustness-variable.....                 | 370 |
| interface/vlan/{vlan-number}/ipv6/mld/startup-query-count.....                          | 371 |
| interface/vlan/{vlan-number}/ipv6/mld/startup-query-interval.....                       | 372 |
| interface/vlan/{vlan-number}/ipv6/mld/static-group.....                                 | 373 |
| interface/vlan/{vlan-number}/name.....  | 374 |
| interface/vlan/{vlan-number}/private-vlan.....  | 375 |
| interface/vlan/{vlan-number}/private-vlan/association.....                              | 376 |
| interface/vlan/{vlan-number}/rspan-vlan.....  | 377 |
| interface/vlan/{vlan-number}/suppress-arp.....  | 378 |
| interface/vlan/{vlan-number}/suppress-nd.....   | 379 |
| interface/vlan/{vlan-number}/transport-service.....                                     | 380 |
| ip/access-list/extended.....  | 381 |
| ip/access-list/extended/{acl-name}/seq.....   | 382 |
| ip/access-list/standard.....  | 384 |
| ip/access-list/standard/{acl-name}/seq.....   | 385 |
| ip/dns/domain-name.....   | 386 |
| ip/dns/name-server.....   | 387 |
| ip/igmp.....  | 388 |
| ipv6/access-list/extended.....  | 389 |
| ipv6/access-list/extended/{acl-name}/seq.....   | 390 |
| ip/access-list/standard.....  | 392 |
| ipv6/access-list/standard/{acl-name}/seq.....   | 393 |
| ipv6/mld.....   | 394 |
| lACP.....   | 395 |
| ldap-server/host.....   | 396 |
| ldap-server/maprole.....  | 397 |
| line.....   | 398 |
| logging/auditlog.....   | 399 |
| logging/raslog/console.....   | 400 |
| logging/raslog/message.....   | 401 |
| logging/syslog-client.....  | 402 |
| logging/syslog-facility.....  | 403 |
| logging/syslog-server.....  | 404 |
| mac/access-list/extended.....   | 405 |
| mac/access-list/extended/{acl-name}/seq.....  | 406 |
| mac/access-list/standard.....   | 408 |
| mac/access-list/standard/{acl-name}/seq.....  | 409 |
| mac-address-table/aging-time.....   | 410 |
| mac-address-table/consistency-check/interval.....                                       | 411 |
| mac-address-table/consistency-check/suppress.....                                       | 412 |
| mac-address-table/learning-mode.....  | 413 |
| mac-address-table/mac-move/detect.....  | 414 |
| mac-address-table/mac-move/limit.....   | 415 |
| mac-address-table/static.....   | 416 |
| mac-group.....  | 417 |
| mac-group/mac.....  | 418 |
| monitor/session.....  | 419 |
| monitor/session/{session-id}/description.....   | 420 |
| monitor/session/{session-id}/source.....  | 421 |
| nas/auto-qos.....   | 423 |
| nas/auto-qos/set/cos.....   | 424 |
| nas/auto-qos/set/dscp.....  | 425 |
| nas/server-ip/{ip-address}/vrf.....   | 426 |
| nas/server-ip/{ip-address}/vlan.....  | 427 |
| nsx-controller.....   | 428 |

|  |     |
|--|-----|
| nsx-controller/{controller-name}/activate.....                                     | 429 |
| nsx-controller/{controller-name}/ip/address.....                                   | 430 |
| nsx-controller/{controller-name}/reconnect-interval.....                           | 431 |
| ntp/authentication-key.....  | 432 |
| ntp/server.....  | 433 |
| ntp/source-ip.....   | 434 |
| openflow-controller.....   | 435 |
| openflow-controller/{controller-name}/ip.....                                      | 436 |
| overlay-gateway.....   | 437 |
| overlay-gateway/{gateway-name}/activate.....                                       | 438 |
| overlay-gateway/{gateway-name}/attach/rbridge-id/add.....                          | 439 |
| overlay-gateway/{gateway-name}/attach/vlan.....                                    | 440 |
| overlay-gateway/{gateway-name}/enable.....   | 441 |
| overlay-gateway/{gateway-name}/ip/access-group.....                                | 442 |
| overlay-gateway/{gateway-name}/ip/interface/loopback.....                          | 443 |
| overlay-gateway/{gateway-name}/ip/interface/ve/{ve-id}/fabric-virtual-gateway..... | 444 |
| overlay-gateway/{gateway-name}/ip/interface/ve/{ve-id}/vrrp-extended-group.....    | 445 |
| overlay-gateway/{gateway-name}/ipv6/access-group.....                              | 446 |
| overlay-gateway/{gateway-name}/mac.....  | 447 |
| overlay-gateway/{gateway-name}/map.....  | 448 |
| overlay-gateway/{gateway-name}/monitor.....  | 449 |
| overlay-gateway/{gateway-name}/sflow.....  | 450 |
| overlay-gateway/{gateway-name}/site.....   | 451 |
| overlay-gateway/{gateway-name}/site/{site-name}/bfd.....                           | 452 |
| overlay-gateway/{gateway-name}/site/{site-name}/extend.....                        | 453 |
| overlay-gateway/{gateway-name}/site/{site-name}/ip.....                            | 454 |
| overlay-gateway/{gateway-name}/site/{site-name}/mac-learning/protocol/bgp.....     | 455 |
| overlay-gateway/{gateway-name}/site/{site-name}/shutdown.....                      | 456 |
| overlay-gateway/{gateway-name}/type.....   | 457 |
| ovsdb-server.....  | 458 |
| ovsdb-server/{server-name}/activate.....   | 459 |
| ovsdb-server/{server-name}/port.....   | 460 |
| password-attributes/admin-lockout.....   | 461 |
| password-attributes/character-restriction/lower.....                               | 462 |
| password-attributes/character-restriction/numeric.....                             | 463 |
| password-attributes/character-restriction/special-char.....                        | 464 |
| password-attributes/max-lockout-duration.....                                      | 465 |
| password-attributes/max-retry.....   | 466 |
| password-attributes/min-length.....  | 467 |
| police-priority-map.....   | 468 |
| police-priority-map/conform.....   | 469 |
| police-priority-map/exceed.....  | 470 |
| policy-map.....  | 471 |
| policy-map/{map-name}/class.....   | 472 |
| policy-map/{map-name}/class/{class-name}/map/cos-mutation.....                     | 473 |
| policy-map/{map-name}/class/{class-name}/map/dscp-mutation.....                    | 474 |
| policy-map/{map-name}/class/{class-name}/map/sflow.....                            | 475 |
| policy-map/{map-name}/class/{class-name}/police.....                               | 476 |
| policy-map/{map-name}/class/{class-name}/scheduler.....                            | 477 |
| policy-map/{map-name}/class/{class-name}/shape.....                                | 478 |
| port-channel-redundancy-group.....   | 479 |
| port-channel-redundancy-group/{group-id}/activate.....                             | 480 |
| port-channel-redundancy-group/{group-id}/port-channel.....                         | 481 |
| port-profile.....  | 482 |
| port-profile/{profile-name}/allow/non-profiled-macs.....                           | 483 |

|  |     |
|--|-----|
| port-profile/{profile-name}/fcoe-profile.....                      | 484 |
| port-profile/{profile-name}/fcoe-profile/fcoeport.....             | 485 |
| port-profile/{profile-name}/qos-profile.....                       | 486 |
| port-profile/{profile-name}/qos-profile/cee.....                   | 487 |
| port-profile/{profile-name}/qos-profile/qos/cos.....               | 488 |
| port-profile/{profile-name}/qos-profile/qos/cos-mutation.....      | 489 |
| port-profile/{profile-name}/qos-profile/qos/cos-traffic-class..... | 490 |
| port-profile/{profile-name}/qos-profile/qos/flowcontrol/pfc.....   | 491 |
| port-profile/{profile-name}/qos-profile/qos/flowcontrol/tx.....    | 492 |
| port-profile/{profile-name}/qos-profile/qos/trust.....             | 493 |
| port-profile/{profile-name}/security-profile/ip.....               | 494 |
| port-profile/{profile-name}/security-profile/ipv6.....             | 495 |
| port-profile/{profile-name}/security-profile/mac.....              | 496 |
| port-profile/{profile-name}/static.....                            | 497 |
| port-profile/{profile-name}/vlan-profile.....                      | 498 |
| port-profile/{profile-name}/vlan-profile/switchport.....           | 499 |
| port-profile-domain.....   | 500 |
| port-profile-domain/{domain-name}/port-profile.....                | 501 |
| preprovision.....  | 502 |
| protocol/cdp.....  | 503 |
| protocol/edge-loop-detection/hello-interval.....                   | 504 |
| protocol/edge-loop-detection/mac-refresh.....                      | 505 |
| protocol/edge-loop-detection/pdu-rx-limit.....                     | 506 |
| protocol/edge-loop-detection/shutdown-time.....                    | 507 |
| protocol/lldp/advertise/dcbx-fcoe-app-tlv.....                     | 508 |
| protocol/lldp/advertise/dcbx-fcoe-logical-link-tlv.....            | 509 |
| protocol/lldp/advertise/dcbx-iscsi-app-tlv.....                    | 510 |
| protocol/lldp/advertise/dcbx-tlv.....                              | 511 |
| protocol/lldp/advertise/dot1-tlv.....                              | 512 |
| protocol/lldp/advertise/dot3-tlv.....                              | 513 |
| protocol/lldp/advertise/optional-tlv.....                          | 514 |
| protocol/lldp/description.....                                     | 515 |
| protocol/lldp/disable.....   | 516 |
| protocol/lldp/hello.....   | 517 |
| protocol/lldp/iscsi-priority.....                                  | 518 |
| protocol/lldp/mode.....  | 519 |
| protocol/lldp/multiplier.....                                      | 520 |
| protocol/lldp/profile/{profile-name}/advertise.....                | 521 |
| protocol/lldp/profile/{profile-name}/hello.....                    | 522 |
| protocol/lldp/profile/{profile-name}/mode.....                     | 523 |
| protocol/lldp/profile/{profile-name}/multiplier.....               | 524 |
| protocol/lldp/system-description.....                              | 525 |
| protocol/lldp/system-name.....                                     | 526 |
| protocol/spanning-tree/mstp/bridge-priority.....                   | 527 |
| protocol/spanning-tree/mstp/cisco-interoperability.....            | 528 |
| protocol/spanning-tree/mstp/description.....                       | 529 |
| protocol/spanning-tree/mstp/error-disable-timeout/enable.....      | 530 |
| protocol/spanning-tree/mstp/error-disable-timeout/interval.....    | 531 |
| protocol/spanning-tree/mstp/forward-delay.....                     | 532 |
| protocol/spanning-tree/mstp/hello-time.....                        | 533 |
| protocol/spanning-tree/mstp/instance/priority.....                 | 534 |
| protocol/spanning-tree/mstp/instance/vlan.....                     | 535 |
| protocol/spanning-tree/mstp/max-age.....                           | 536 |
| protocol/spanning-tree/mstp/max-hops.....                          | 537 |
| protocol/spanning-tree/mstp/port-channel.....                      | 538 |
| protocol/spanning-tree/mstp/region.....                            | 539 |
| protocol/spanning-tree/mstp/revision.....                          | 540 |
| protocol/spanning-tree/mstp/shutdown.....                          | 541 |

|  |     |
|--|-----|
| protocol/spanning-tree/mstp/transmit-holdcount.....              | 542 |
| protocol/spanning-tree/pvst/bridge-priority.....                 | 543 |
| protocol/spanning-tree/pvst/description.....                     | 544 |
| protocol/spanning-tree/pvst/error-disable-timeout/enable.....    | 545 |
| protocol/spanning-tree/pvst/error-disable-timeout/interval.....  | 546 |
| protocol/spanning-tree/pvst/forward-delay.....                   | 547 |
| protocol/spanning-tree/pvst/hello-time.....                      | 548 |
| protocol/spanning-tree/pvst/max-age.....                         | 549 |
| protocol/spanning-tree/pvst/port-channel.....                    | 550 |
| protocol/spanning-tree/pvst/shutdown.....                        | 551 |
| protocol/spanning-tree/pvst/vlan/forward-delay.....              | 552 |
| protocol/spanning-tree/pvst/vlan/hello-time.....                 | 553 |
| protocol/spanning-tree/pvst/vlan/max-age.....                    | 554 |
| protocol/spanning-tree/pvst/vlan/priority.....                   | 555 |
| protocol/spanning-tree/rpvst/bridge-priority.....                | 556 |
| protocol/spanning-tree/rpvst/description.....                    | 557 |
| protocol/spanning-tree/rpvst/error-disable-timeout/enable.....   | 558 |
| protocol/spanning-tree/rpvst/error-disable-timeout/interval..... | 559 |
| protocol/spanning-tree/rpvst/forward-delay.....                  | 560 |
| protocol/spanning-tree/rpvst/hello-time.....                     | 561 |
| protocol/spanning-tree/rpvst/max-age.....                        | 562 |
| protocol/spanning-tree/rpvst/port-channel.....                   | 563 |
| protocol/spanning-tree/rpvst/shutdown.....                       | 564 |
| protocol/spanning-tree/rpvst/transmit-holdcount.....             | 565 |
| protocol/spanning-tree/rpvst/vlan/forward-delay.....             | 566 |
| protocol/spanning-tree/rpvst/vlan/hello-time.....                | 567 |
| protocol/spanning-tree/rpvst/vlan/max-age.....                   | 568 |
| protocol/spanning-tree/rpvst/vlan/priority.....                  | 569 |
| protocol/spanning-tree/rstp/bridge-priority.....                 | 570 |
| protocol/spanning-tree/rstp/description.....                     | 571 |
| protocol/spanning-tree/rstp/error-disable-timeout/enable.....    | 572 |
| protocol/spanning-tree/rstp/error-disable-timeout/interval.....  | 573 |
| protocol/spanning-tree/rstp/forward-delay.....                   | 574 |
| protocol/spanning-tree/rstp/hello-time.....                      | 575 |
| protocol/spanning-tree/rstp/max-age.....                         | 576 |
| protocol/spanning-tree/rstp/port-channel.....                    | 577 |
| protocol/spanning-tree/rstp/shutdown.....                        | 578 |
| protocol/spanning-tree/rstp/transmit-holdcount.....              | 579 |
| protocol/spanning-tree/stp/bridge-priority.....                  | 580 |
| protocol/spanning-tree/stp/description.....                      | 581 |
| protocol/spanning-tree/stp/error-disable-timeout/enable.....     | 582 |
| protocol/spanning-tree/stp/error-disable-timeout/interval.....   | 583 |
| protocol/spanning-tree/stp/forward-delay.....                    | 584 |
| protocol/spanning-tree/stp/hello-time.....                       | 585 |
| protocol/spanning-tree/stp/max-age.....                          | 586 |
| protocol/spanning-tree/stp/port-channel.....                     | 587 |
| protocol/spanning-tree/stp/shutdown.....                         | 588 |
| protocol/udld.....   | 589 |
| protocol/udld/hello.....   | 590 |
| protocol/udld/multiplier.....                                    | 591 |
| protocol/udld/shutdown.....                                      | 592 |
| qos/map/cos-mutation.....  | 593 |
| qos/map/dscp-qos.....  | 594 |
| qos/map/dscp-qos/{map-name}/mark.....                            | 595 |
| qos/map/dscp-mutation.....                                       | 596 |
| qos/map/dscp-mutation/{map-name}/mark.....                       | 597 |
| qos/map/dscp-traffic-class.....                                  | 598 |
| qos/map/dscp-traffic-class/{map-name}/mark.....                  | 599 |

|  |     |
|--|-----|
| qos/red-profile.....   | 600 |
| qos/service-policy.....  | 601 |
| qos/service-policy/{policy-name}/attach.....   | 602 |
| radius-server.....   | 603 |
| rbridge-id/{rbridge-number}/ag/counter/reliability.....  | 605 |
| rbridge-id/{rbridge-number}/ag/enable.....   | 606 |
| rbridge-id/{rbridge-number}/ag/nport/interface/fiberchannel/map/fport/<br>interface/fcoe.....    | 607 |
| rbridge-id/{rbridge-number}/ag/pg.....   | 608 |
| rbridge-id/{rbridge-number}/ag/pg/{pg-id}/modes.....   | 609 |
| rbridge-id/{rbridge-number}/ag/pg/{pg-id}/nport/interface/fibrechannel.....                      | 610 |
| rbridge-id/{rbridge-number}/ag/pg/{pg-id}/rename.....  | 611 |
| rbridge-id/{rbridge-number}/ag/timeout.....  | 612 |
| rbridge-id/{rbridge-number}/arp.....   | 613 |
| rbridge-id/{rbridge-number}/bfd-session-setup-delay.....   | 614 |
| rbridge-id/{rbridge-number}/bp-rate-limit/heavy/module.....                                      | 615 |
| rbridge-id/{rbridge-number}/chassis/virtual-ip.....  | 616 |
| rbridge-id/{rbridge-number}/chassis/virtual-ipv6.....  | 617 |
| rbridge-id/{rbridge-number}/clock/timezone.....  | 618 |
| rbridge-id/{rbridge-number}/crypto/ca/trustpoint.....  | 619 |
| rbridge-id/{rbridge-number}/crypto/ca/trustpoint/{trustpoint-name}/<br>keypair.....              | 620 |
| rbridge-id/{rbridge-number}/crypto/key.....  | 621 |
| rbridge-id/{rbridge-number}/default-config enable.....   | 622 |
| rbridge-id/{rbridge-number}/event-handler/activate.....  | 623 |
| rbridge-id/{rbridge-number}/event-handler/activate/{eventhandler-<br>name}/delay.....            | 624 |
| rbridge-id/{rbridge-number}/event-handler/activate/{eventhandler-<br>name}/interval.....         | 625 |
| rbridge-id/{rbridge-number}/event-handler/activate/{eventhandler-<br>name}/iterations.....       | 626 |
| rbridge-id/{rbridge-number}/event-handler/activate/{eventhandler-<br>name}/run-mode.....         | 627 |
| rbridge-id/{rbridge-number}/event-handler/activate/{eventhandler-<br>name}/trigger-function..... | 628 |
| rbridge-id/{rbridge-number}/event-handler/activate/{eventhandler-<br>name}/trigger-mode.....     | 629 |
| rbridge-id/{rbridge-number}/evpn-instance.....   | 630 |
| rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/df-delay-<br>timer.....                | 631 |
| rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/duplicate-<br>mac-timer.....           | 632 |
| rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/rd/auto.....                           | 633 |
| rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/route-<br>target/both.....             | 634 |
| rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/route-<br>target/export.....           | 635 |
| rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/route-<br>target/import.....           | 636 |
| rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/vni.....                               | 637 |
| rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/vni/{add  <br>remove}.....             | 638 |
| rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/vni/{vni-<br>number}/route-target..... | 639 |
| rbridge-id/{rbridge-number}/fabric/ecmp/load-balance.....  | 640 |
| rbridge-id/{rbridge-number}/fabric/ecmp/load-balance-hash-swap.....                              | 641 |
| rbridge-id/{rbridge-number}/fabric/login-policy.....   | 642 |
| rbridge-id/{rbridge-number}/fabric/port-channel.....   | 643 |

|   |     |
|---|-----|
| rbridge-id/{rbridge-number}/fabric/route.....   | 644 |
| rbridge-id/{rbridge-number}/fcoe/fcoe-enodes.....   | 645 |
| rbridge-id/{rbridge-number}/fcsp/auth/auth-type.....  | 646 |
| rbridge-id/{rbridge-number}/fcsp/auth/group.....  | 647 |
| rbridge-id/{rbridge-number}/fcsp/auth/hash.....   | 648 |
| rbridge-id/{rbridge-number}/fcsp/auth/policy.....   | 649 |
| rbridge-id/{rbridge-number}/filter-change-update-delay.....   | 650 |
| rbridge-id/{rbridge-number}/hardware-profile/kap.....   | 651 |
| rbridge-id/{rbridge-number}/hardware-profile/route-table.....   | 652 |
| rbridge-id/{rbridge-number}/hardware-profile/tcam.....  | 653 |
| rbridge-id/{rbridge-number}/hardware-profile/vlan-classification.....   | 654 |
| rbridge-id/{rbridge-number}/http/server/shutdown.....   | 655 |
| rbridge-id/{rbridge-number}/http/server/use-vrf.....  | 656 |
| rbridge-id/{rbridge-number}/host-table/aging-mode.....  | 657 |
| rbridge-id/{rbridge-number}/host-table/aging-time.....  | 658 |
| rbridge-id/{rbridge-number}/interface/loopback.....   | 659 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/address.....  | 660 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/active.....  | 661 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/area.....  | 662 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/<br>auth-change-wait-time.....                       | 663 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/<br>authentication-key.....                          | 664 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/cost.....  | 665 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/<br>database-filter.....                             | 666 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/<br>dead-interval.....                               | 667 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/<br>hello-interval.....                              | 668 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/<br>md5-authentication/key-activation-wait-time..... | 669 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/<br>md5-authentication/key-id.....                   | 670 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/mtu-<br>ignore.....                                  | 671 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/<br>network.....                                     | 672 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/<br>passive.....                                     | 673 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/<br>priority.....                                    | 674 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/<br>retransmit-interval.....                         | 675 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/<br>transmit-delay.....                              | 676 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/<br>active.....                                    | 677 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/address.....  | 678 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/<br>area.....                                      | 679 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/<br>cost.....                                      | 680 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/<br>dead-interval.....                             | 681 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/<br>hello-interval.....                            | 682 |

|   |     |
|---|-----|
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/<br>hello-jitter.....          | 683 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/<br>instance.....              | 684 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/<br>mtu-ignore.....            | 685 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/<br>network.....               | 686 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/<br>passive.....               | 687 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/<br>priority.....              | 688 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/<br>retransmit-interval.....   | 689 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/<br>suppress-linklsa.....      | 690 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ipv6/ospf/<br>transmit-delay.....        | 691 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/shutdown....                             | 692 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/snmp.....                                | 693 |
| rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/vrf.....                                 | 694 |
| rbridge-id/{rbridge-number}/interface/ve.....   | 695 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/bfd/interval.....                                  | 696 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/bfd/shutdown.....                                  | 697 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/address.....                                    | 698 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/anycast-address.....                            | 699 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/arp-aging-timeout.....                          | 700 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/dhcp/relay/address....                          | 701 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/dhcp/relay/gateway/<br>address.....             | 702 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/directed-broadcast....                          | 703 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/fabric-virtual-<br>gateway/enable.....          | 704 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/fabric-virtual-<br>gateway/load-balancing.....  | 705 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/fabric-virtual-<br>gateway/track/interface..... | 706 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/fabric-virtual-<br>gateway/track/network.....   | 707 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/fabric-virtual-<br>gateway/track/next-hop.....  | 708 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/icmp/address-mask...                            | 709 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/icmp/echo-reply.....                            | 710 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/icmp/rate-limiting.....                         | 711 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/icmp/redirect.....                              | 712 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/icmp/unreachable.....                           | 713 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/mtu.....  | 714 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/multicast-boundary....                          | 715 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/active.....                                | 716 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/area.....                                  | 717 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/auth-change-<br>wait-time.....             | 718 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/authentication-<br>key.....                | 719 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/bfd.....                                   | 720 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/cost.....                                  | 721 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/database-filter....                        | 722 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/dead-interval.....                         | 723 |



|  |     |
|--|-----|
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/hello-interval.....                                   | 724 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/md5-<br>authentication/key-activation-wait-time.....  | 725 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/md5-<br>authentication/key-id.....                    | 726 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/mtu-ignore.....                                       | 727 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/network.....  | 728 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/passive.....  | 729 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/priority.....   | 730 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/retransmit-<br>interval.....                          | 731 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/transmit-delay.....                                   | 732 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/pim/dr-priority.....                                       | 733 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/pim/neighbor-filter.....                                   | 734 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/pim-sparse.....  | 735 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/policy.....  | 736 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/proxy-arp.....   | 737 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/access-group.....  | 738 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/address.....   | 739 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/anycast-address.....                                     | 740 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/dhcp/relay/address..                                     | 741 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/fabric-virtual-<br>gateway/enable.....                   | 742 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/fabric-virtual-<br>gateway/track.....                    | 743 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/hop-by-hop-trap.....                                     | 745 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/icmpv6/echo-reply....                                    | 746 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/icmpv6/rate-limiting..                                   | 747 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/icmpv6/redirect.....                                     | 748 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/icmpv6/unreachable..                                     | 749 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/mtu.....   | 750 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/broadcast-mac-<br>trap.....                           | 751 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/cache.....  | 752 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/dad/attempts.....                                     | 753 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/dad/time.....   | 754 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/dad/hoplimit.....                                     | 755 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/managed-<br>config-flag.....                          | 756 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/mtu.....  | 757 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/ns-interval.....                                      | 758 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/other-config-flag..                                   | 759 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/prefix.....   | 760 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/ra-interval.....                                      | 761 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/ra-lifetime.....                                      | 762 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/reachable-time....                                    | 763 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/retrans-timer.....                                    | 764 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/suppress-ra.....                                      | 765 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/neighbor.....  | 766 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/active.....   | 767 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/area.....   | 768 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/athetication/<br>ipsec/disable.....                 | 769 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/athetication/<br>ipsec/key-add-remove-interval..... | 770 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/athetication/<br>spi.....                           | 771 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/bfd.....  | 773 |

|   |     |
|---|-----|
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/cost.....  | 774 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/dead-interval..                                  | 775 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/hello-interval..                                 | 776 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/hello-jitter.....                                | 777 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/instance.....                                    | 778 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/mtu-ignore.....                                  | 779 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/network.....                                     | 780 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/passive.....                                     | 781 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/priority.....                                    | 782 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/retransmit-<br>interval.....                     | 783 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/suppress-<br>linklsa.....                        | 784 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/transmit-<br>delay.....                          | 785 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/policy.....   | 786 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/vrrp-extended-<br>group.....                          | 787 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/vrrp-suppress-<br>interface-ra.....                   | 788 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/snmp.....  | 789 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrf.....   | 790 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group.....                                   | 791 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/<br>advertise-backup.....              | 792 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/<br>advertisement-interval.....        | 793 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/<br>advertisement-interval-scale.....  | 794 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/<br>arp.....                           | 795 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/<br>backup-advertisement-interval..... | 796 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/<br>enable.....                        | 797 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/<br>description.....                   | 798 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/<br>hold-time.....                     | 799 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/<br>preempt-mode.....                  | 800 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/<br>priority.....                      | 801 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/<br>short-path-forwarding.....         | 802 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/<br>track.....                         | 803 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/<br>virtual-ip.....                    | 804 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/<br>virtual-mac.....                   | 805 |
| rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-group.....  | 806 |
| rbridge-id/{rbridge-number}/ip/anycast-gateway-mac.....   | 807 |
| rbridge-id/{rbridge-number}/ip/as-path/access-list.....   | 808 |
| rbridge-id/{rbridge-number}/ip/community-list/extended.....   | 809 |
| rbridge-id/{rbridge-number}/ip/community-list/standard.....   | 810 |
| rbridge-id/{rbridge-number}/ip/dhcp/relay/information/option.....   | 811 |
| rbridge-id/{rbridge-number}/ip/extcommunity-list.....   | 812 |

|  |     |
|--|-----|
| rbridge-id/{rbridge-number}/ip/import/routes.....                                | 813 |
| rbridge-id/{rbridge-number}/ip/prefix-list.....                                  | 814 |
| rbridge-id/{rbridge-number}/ip/receive.....                                      | 815 |
| rbridge-id/{rbridge-number}/ip/route.....  | 816 |
| rbridge-id/{rbridge-number}/ip/route/next-hop-vrf.....                           | 817 |
| rbridge-id/{rbridge-number}/ip/route/static/bfd.....                             | 818 |
| rbridge-id/{rbridge-number}/ip/route/static/bfd/holdover-interval.....           | 819 |
| rbridge-id/{rbridge-number}/ip/router-id.....                                    | 820 |
| rbridge-id/{rbridge-number}/ipv6/anycast-gateway-mac.....                        | 821 |
| rbridge-id/{rbridge-number}/ipv6/import/routes.....                              | 822 |
| rbridge-id/{rbridge-number}/ipv6/nd/dad/time.....                                | 823 |
| rbridge-id/{rbridge-number}/ipv6/prefix-list.....                                | 824 |
| rbridge-id/{rbridge-number}/ipv6/protocol/vrrp.....                              | 825 |
| rbridge-id/{rbridge-number}/ipv6/protocol/vrrp-extended.....                     | 826 |
| rbridge-id/{rbridge-number}/ipv6/receive.....                                    | 827 |
| rbridge-id/{rbridge-number}/ipv6/route.....                                      | 828 |
| rbridge-id/{rbridge-number}/ipv6/route/next-hop-vrf.....                         | 829 |
| rbridge-id/{rbridge-number}/ipv6/route/static/bfd/holdover-interval.....         | 830 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf.....                                | 831 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/area.....                           | 832 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/area/authentication.....            | 833 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/area/nssa.....                      | 835 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/area/range.....                     | 836 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/area/stub.....                      | 837 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/area/virtual-link.....              | 838 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/area/virtual-link/dead-interval..   | 839 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/area/virtual-link/hello-interval..  | 840 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/area/virtual-link/hello-jitter..... | 841 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/auto-cost.....                      | 842 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/bfd.....                            | 843 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/bfd/holdover-interval.....          | 844 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/database-overflow-interval.....     | 845 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/default-information-originate...    | 846 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/default-metric.....                 | 847 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/default-passive-interface.....      | 848 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/distance.....                       | 849 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/distribute-list/prefix-list.....    | 850 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/distribute-list/route-map.....      | 851 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/external-lsdb-limit.....            | 852 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/graceful-restart/helper/disable     | 853 |
| lsa-checking.....  | 854 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/key-add-remove-interval.....        | 855 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/key-rollover-interval.....          | 856 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/log/adjacency.....                  | 857 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/log/all.....                        | 858 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/log/bad-packet.....                 | 859 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/log/database.....                   | 860 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/log/retransmit.....                 | 861 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/max-metric/router-lsa/all-lsas..    | 862 |
| external-lsa.....  | 863 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/max-metric/router-lsa/              |     |
| include-stub.....  | 864 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/max-metric/router-lsa/on-           |     |
| startup.....   | 865 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/max-metric/router-lsa/on-           |     |
| startup/wait-for-bgp.....  | 866 |

|  |     |
|--|-----|
| rbridge-id/{rbridge-number}/ipv6/router/ospf/max-metric/router-lsa/<br>summary-lsa.....  | 867 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/maximum-paths.....                          | 868 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/metric-type.....                            | 869 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/nonstop-routing.....                        | 870 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/bgp/metric.....                | 871 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/bgp/metric-type..              | 872 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/bgp/route-map....              | 873 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/connected/<br>metric.....      | 874 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/connected/<br>metric-type..... | 875 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/connected/<br>route-map.....   | 876 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/ospf/metric.....               | 877 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/ospf/metric-type..             | 878 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/ospf/route-map...              | 879 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/static/metric.....             | 880 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/static/metric-<br>type.....    | 881 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/static/route-map.              | 882 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/summary-address.....                        | 883 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/timers/lisa-group-pacing.....               | 884 |
| rbridge-id/{rbridge-number}/ipv6/router/ospf/timers/spf.....                             | 885 |
| rbridge-id/{rbridge-number}/logical-chassis.....   | 886 |
| rbridge-id/{rbridge-number}/maps/email.....  | 887 |
| rbridge-id/{rbridge-number}/maps/enable.....   | 888 |
| rbridge-id/{rbridge-number}/maps/group.....  | 889 |
| rbridge-id/{rbridge-number}/maps/policy.....   | 890 |
| rbridge-id/{rbridge-number}/maps/relay.....  | 891 |
| rbridge-id/{rbridge-number}/maps/rule.....   | 892 |
| rbridge-id/{rbridge-number}/openflow/logical-instance.....                               | 894 |
| rbridge-id/{rbridge-number}/openflow/logical-instance/activate.....                      | 895 |
| rbridge-id/{rbridge-number}/openflow/logical-instance/controller.....                    | 896 |
| rbridge-id/{rbridge-number}/openflow/logical-instance/default-behavior....               | 897 |
| rbridge-id/{rbridge-number}/openflow/logical-instance/passive.....                       | 898 |
| rbridge-id/{rbridge-number}/openflow/logical-instance/version.....                       | 899 |
| rbridge-id/{rbridge-number}/protocol/vrrp.....   | 900 |
| rbridge-id/{rbridge-number}/protocol/vrrp-extended.....                                  | 901 |
| rbridge-id/{rbridge-number}/qos/rcv-queue.....   | 902 |
| rbridge-id/{rbridge-number}/qos/tx-queue.....  | 903 |
| rbridge-id/{rbridge-number}/root/access.....   | 904 |
| rbridge-id/{rbridge-number}/root/enable.....   | 905 |
| rbridge-id/{rbridge-number}/route-map.....   | 906 |
| rbridge-id/{rbridge-number}/route-map/continue.....                                      | 907 |
| rbridge-id/{rbridge-number}/route-map/match/as-path.....                                 | 908 |
| rbridge-id/{rbridge-number}/route-map/match/community.....                               | 909 |
| rbridge-id/{rbridge-number}/route-map/match/extcommunity.....                            | 910 |
| rbridge-id/{rbridge-number}/route-map/match/interface.....                               | 911 |
| rbridge-id/{rbridge-number}/route-map/match/ip/address.....                              | 912 |
| rbridge-id/{rbridge-number}/route-map/match/ip/next-hop.....                             | 913 |
| rbridge-id/{rbridge-number}/route-map/match/ip/route-source.....                         | 914 |
| rbridge-id/{rbridge-number}/route-map/match/metric.....                                  | 915 |
| rbridge-id/{rbridge-number}/route-map/match/protocol/bgp.....                            | 916 |
| rbridge-id/{rbridge-number}/route-map/match/route-type.....                              | 917 |
| rbridge-id/{rbridge-number}/route-map/match/tag.....                                     | 918 |
| rbridge-id/{rbridge-number}/route-map/match/vrf.....                                     | 919 |
| rbridge-id/{rbridge-number}/route-map/set/as-path/prepend.....                           | 920 |

|  |     |
|--|-----|
| rbridge-id/{rbridge-number}/route-map/set/as-path/tag.....   | 921 |
| rbridge-id/{rbridge-number}/route-map/set/automatic-tag.....   | 922 |
| rbridge-id/{rbridge-number}/route-map/set/comm-list.....   | 923 |
| rbridge-id/{rbridge-number}/route-map/set/community.....   | 924 |
| rbridge-id/{rbridge-number}/route-map/set/dampening.....   | 925 |
| rbridge-id/{rbridge-number}/route-map/set/distance.....  | 926 |
| rbridge-id/{rbridge-number}/route-map/set/dscp.....  | 927 |
| rbridge-id/{rbridge-number}/route-map/set/extcommunity/rt.....   | 928 |
| rbridge-id/{rbridge-number}/route-map/set/extcommunity/soo.....  | 929 |
| rbridge-id/{rbridge-number}/route-map/set/ip/global.....   | 930 |
| rbridge-id/{rbridge-number}/route-map/set/ip/interface.....  | 931 |
| rbridge-id/{rbridge-number}/route-map/set/ip/next-hop.....   | 932 |
| rbridge-id/{rbridge-number}/route-map/set/ip/next-hop/vrf.....   | 933 |
| rbridge-id/{rbridge-number}/route-map/set/local-preference.....  | 934 |
| rbridge-id/{rbridge-number}/route-map/set/metric.....  | 935 |
| rbridge-id/{rbridge-number}/route-map/set/metric-type.....   | 936 |
| rbridge-id/{rbridge-number}/route-map/set/origin.....  | 937 |
| rbridge-id/{rbridge-number}/route-map/set/route-type.....  | 938 |
| rbridge-id/{rbridge-number}/route-map/set/tag.....   | 939 |
| rbridge-id/{rbridge-number}/route-map/set/weight.....  | 940 |
| rbridge-id/{rbridge-number}/router/bgp.....  | 941 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast.....  | 942 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>aggregate-address/advertise-map.....    | 943 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>aggregate-address/as-set.....           | 944 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>aggregate-address/attribute-map.....    | 945 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>aggregate-address/summary-only.....     | 946 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>aggregate-address/suppress-map.....     | 947 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>always-propagate.....                   | 948 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/bgp-<br>redistribute-internal.....          | 949 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/client-<br>to-client-reflection.....        | 950 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>dampening.....                          | 951 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>dampening/route-map.....                | 952 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>default-information-originate.....      | 953 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>default-metric.....                     | 954 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>graceful-restart/purge-time.....        | 955 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>graceful-restart/restart-time.....      | 956 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>graceful-restart/stale-routes-time..... | 957 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>maximum-paths.....                      | 958 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>maximum-paths/ebgp.....                 | 959 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>maximum-paths/ibgp.....                 | 960 |

|  |     |
|--|-----|
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>maximum-paths/use-load-sharing.....           | 961 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>multipath/ebgp.....                           | 962 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>multipath/ibgp.....                           | 963 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>multipath/multi-as.....                       | 964 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>neighbor/activate.....                        | 965 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>neighbor/additional-paths/advertise/all.....  | 966 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>neighbor/additional-paths/advertise/best..... | 967 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>neighbor/capability.....                      | 968 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>neighbor/capability/additional-paths.....     | 969 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>neighbor/default-originate.....               | 970 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>neighbor/maximum-prefix.....                  | 971 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>neighbor/prefix-list.....                     | 972 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>neighbor/filter-list.....                     | 973 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>neighbor/route-map.....                       | 974 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>neighbor/route-reflector-client.....          | 975 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>neighbor/send-community.....                  | 976 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>neighbor/unsuppress-map.....                  | 977 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>neighbor/weight.....                          | 978 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>network.....                                  | 979 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>next-hop-enable-default.....                  | 980 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>next-hop-recursion.....                       | 981 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>redistribute/bgp/metric.....                  | 982 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>redistribute/bgp/route-map.....               | 983 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>redistribute/connected/metric.....            | 984 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>redistribute/connected/route-map.....         | 985 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>redistribute/ospf/match.....                  | 986 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>redistribute/ospf/metric.....                 | 987 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>redistribute/ospf/route-map.....              | 988 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>redistribute/static/metric.....               | 989 |

|  |      |
|--|------|
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>redistribute/static/route-map.....      | 990  |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/rib-<br>route-map.....                      | 991  |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/static-<br>network.....                     | 992  |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/table-<br>map.....                          | 993  |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/<br>update-time.....                        | 994  |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>aggregate-address.....                  | 995  |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>always-propagate.....                   | 996  |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/bgp-<br>redistribute-internal.....          | 997  |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/client-<br>to-client-reflection.....        | 998  |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>dampening.....                          | 999  |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>default-information-originate.....      | 1000 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>default-metric.....                     | 1001 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>graceful-restart.....                   | 1002 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>graceful-restart/purge-time.....        | 1003 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>graceful-restart/restart-time.....      | 1004 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>graceful-restart/stale-routes-time..... | 1005 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>maximum-paths.....                      | 1006 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>maximum-paths/ebgp.....                 | 1007 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>maximum-paths/ibgp.....                 | 1008 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>maximum-paths/use-load-sharing.....     | 1009 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>multipath/ebgp.....                     | 1010 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>multipath/ibgp.....                     | 1011 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>multipath/multi-as.....                 | 1012 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>neighbor/activate.....                  | 1013 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>neighbor/allowas-in.....                | 1014 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>neighbor/capability.....                | 1015 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>neighbor/default-originate.....         | 1016 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>neighbor/maximum-prefix.....            | 1017 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>neighbor/prefix-list.....               | 1018 |

|  |      |
|--|------|
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>neighbor/filter-list.....             | 1019 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>neighbor/route-map.....               | 1020 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>neighbor/route-reflector-client.....  | 1021 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>neighbor/send-community.....          | 1022 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>neighbor/timers.....                  | 1023 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>neighbor/unsuppress-map.....          | 1024 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>neighbor/update-source.....           | 1025 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>neighbor/weight.....                  | 1026 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>network.....                          | 1027 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>next-hop-enable-default.....          | 1028 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>next-hop-recursion.....               | 1029 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>redistribute/bgp/metric.....          | 1030 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>redistribute/bgp/route-map.....       | 1031 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>redistribute/connected/metric.....    | 1032 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>redistribute/connected/route-map..... | 1033 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>redistribute/ospf/match.....          | 1034 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>redistribute/ospf/metric.....         | 1035 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>redistribute/ospf/route-map.....      | 1036 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/rib-<br>route-limit.....                  | 1037 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>table-map.....                        | 1038 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/<br>update-time.....                      | 1039 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn.....  | 1040 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/<br>graceful-restart.....                   | 1041 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/<br>graceful-restart/purge-time.....        | 1042 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/<br>graceful-restart/restart-time.....      | 1043 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/<br>graceful-restart/stale-routes-time..... | 1044 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/<br>neighbor/next-hop-unchanged.....        | 1045 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/<br>retain/route-target.....                | 1046 |
| rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/vtep-<br>discovery.....                     | 1047 |
| rbridge-id/{rbridge-number}/router/bgp/always-compare-med.....   | 1048 |



|   |      |
|---|------|
| rbridge-id/{rbridge-number}/router/bgp/as-path-ignore.....  | 1049 |
| rbridge-id/{rbridge-number}/router/bgp/auto-shutdown-new-neighbors.....                                   | 1050 |
| rbridge-id/{rbridge-number}/router/bgp/bfd/holdover-interval.....   | 1051 |
| rbridge-id/{rbridge-number}/router/bgp/bfd/interval.....  | 1052 |
| rbridge-id/{rbridge-number}/router/bgp/capability/as4-enable.....   | 1053 |
| rbridge-id/{rbridge-number}/router/bgp/cluster-id.....  | 1054 |
| rbridge-id/{rbridge-number}/router/bgp/cluster-id/ipv4-address.....                                       | 1055 |
| rbridge-id/{rbridge-number}/router/bgp/compare-med-empty-aspath.....                                      | 1056 |
| rbridge-id/{rbridge-number}/router/bgp/compare-routerid.....  | 1057 |
| rbridge-id/{rbridge-number}/router/bgp/confederation/identifier.....                                      | 1058 |
| rbridge-id/{rbridge-number}/router/bgp/confederation/peers.....   | 1059 |
| rbridge-id/{rbridge-number}/router/bgp/default-local-preference.....                                      | 1060 |
| rbridge-id/{rbridge-number}/router/bgp/distance.....  | 1061 |
| rbridge-id/{rbridge-number}/router/bgp/enforce-first-as.....  | 1062 |
| rbridge-id/{rbridge-number}/router/bgp/fast-external-fallover.....  | 1063 |
| rbridge-id/{rbridge-number}/router/bgp/install-igp-cost.....  | 1064 |
| rbridge-id/{rbridge-number}/router/bgp/local-as.....  | 1065 |
| rbridge-id/{rbridge-number}/router/bgp/log-dampening-debug.....   | 1066 |
| rbridge-id/{rbridge-number}/router/bgp/med-missing-as-worst.....  | 1067 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}.....                        | 1068 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/advertisement-interval..... | 1069 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/as-override.....            | 1070 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/bfd.....                    | 1071 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/bfd/holdover-interval.....  | 1072 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/bfd/interval.....           | 1073 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/capability/as4.....         | 1075 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/description.....            | 1076 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/ebgp-btsh.....              | 1077 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/ebgp-multihop.....          | 1078 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/enforce-first-as.....       | 1079 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/local-as.....               | 1080 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/maxas-limit.....            | 1081 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/maxas-limit/disable.....    | 1082 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/next-hop-self.....          | 1083 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/password.....               | 1084 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/peer-group.....             | 1085 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/remote-as.....              | 1086 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/remove-private-as.....      | 1087 |

|   |      |
|---|------|
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/shutdown.....                     | 1088 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/soft-reconfiguration/inbound..... | 1089 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/timers.....                       | 1090 |
| rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/update-source.....                | 1091 |
| rbridge-id/{rbridge-number}/router/bgp/timers.....  | 1092 |
| rbridge-id/{rbridge-number}/router/ospf.....  | 1093 |
| rbridge-id/{rbridge-number}/router/ospf/area/nssa.....  | 1094 |
| rbridge-id/{rbridge-number}/router/ospf/area/prefix-list.....   | 1095 |
| rbridge-id/{rbridge-number}/router/ospf/area/range.....   | 1096 |
| rbridge-id/{rbridge-number}/router/ospf/area/stub.....  | 1097 |
| rbridge-id/{rbridge-number}/router/ospf/area/virtual-link.....  | 1098 |
| rbridge-id/{rbridge-number}/router/ospf/area/virtual-link/retransmit-interval.....                              | 1099 |
| rbridge-id/{rbridge-number}/router/ospf/area/virtual-link/transmit-delay....                                    | 1100 |
| rbridge-id/{rbridge-number}/router/ospf/auto-cost/reference-bandwidth...  | 1101 |
| rbridge-id/{rbridge-number}/router/ospf/auto-cost/reference-bandwidth/use-active-ports.....                     | 1102 |
| rbridge-id/{rbridge-number}/router/ospf/bfd.....  | 1103 |
| rbridge-id/{rbridge-number}/router/ospf/bfd/holdover-interval.....  | 1104 |
| rbridge-id/{rbridge-number}/router/ospf/database-overflow-interval.....   | 1105 |
| rbridge-id/{rbridge-number}/router/ospf/default-information-originate.....                                      | 1106 |
| rbridge-id/{rbridge-number}/router/ospf/default-metric.....   | 1107 |
| rbridge-id/{rbridge-number}/router/ospf/default-passive-interface.....  | 1108 |
| rbridge-id/{rbridge-number}/router/ospf/distance.....   | 1109 |
| rbridge-id/{rbridge-number}/router/ospf/distribute-list/route-map.....  | 1110 |
| rbridge-id/{rbridge-number}/router/ospf/external-lsdb-limit.....  | 1111 |
| rbridge-id/{rbridge-number}/router/ospf/graceful-restart.....   | 1112 |
| rbridge-id/{rbridge-number}/router/ospf/graceful-restart/helper-disable....                                     | 1113 |
| rbridge-id/{rbridge-number}/router/ospf/graceful-restart/restart-time.....                                      | 1114 |
| rbridge-id/{rbridge-number}/router/ospf/log.....  | 1115 |
| rbridge-id/{rbridge-number}/router/ospf/maximum-paths.....  | 1116 |
| rbridge-id/{rbridge-number}/router/ospf/max-metric/router-lsa/external-lsa.....                                 | 1117 |
| rbridge-id/{rbridge-number}/router/ospf/max-metric/router-lsa/link.....   | 1118 |
| rbridge-id/{rbridge-number}/router/ospf/max-metric/router-lsa/summary-lsa.....                                  | 1119 |
| rbridge-id/{rbridge-number}/router/ospf/metric-type.....  | 1120 |
| rbridge-id/{rbridge-number}/router/ospf/neighbor.....   | 1121 |
| rbridge-id/{rbridge-number}/router/ospf/nssa-translator.....  | 1122 |
| rbridge-id/{rbridge-number}/router/ospf/redistribute/bgp/route-map.....   | 1123 |
| rbridge-id/{rbridge-number}/router/ospf/redistribute/connected/route-map.....                                   | 1124 |
| rbridge-id/{rbridge-number}/router/ospf/redistribute/ospf/route-map.....  | 1125 |
| rbridge-id/{rbridge-number}/router/ospf/redistribute/static/route-map.....                                      | 1126 |
| rbridge-id/{rbridge-number}/router/ospf/rfc1583-compatibility.....  | 1127 |
| rbridge-id/{rbridge-number}/router/ospf/rfc1587-compatibility.....  | 1128 |
| rbridge-id/{rbridge-number}/router/ospf/summary-address.....  | 1129 |
| rbridge-id/{rbridge-number}/router/ospf/timers/lssa-group-pacing.....   | 1130 |
| rbridge-id/{rbridge-number}/router/ospf/timers/throttle.....  | 1131 |
| rbridge-id/{rbridge-number}/router/ospf/vrf/vrf-lite-capability.....  | 1132 |
| rbridge-id/{rbridge-number}/router/pim.....   | 1133 |
| rbridge-id/{rbridge-number}/router/pim/hello-interval.....  | 1134 |
| rbridge-id/{rbridge-number}/router/pim/inactivity-timer.....  | 1135 |
| rbridge-id/{rbridge-number}/router/pim/max-mcache.....  | 1136 |
| rbridge-id/{rbridge-number}/router/pim/message-interval.....  | 1137 |

|   |      |
|---|------|
| rbridge-id/{rbridge-number}/router/pim/nbr-timeout.....                               | 1138 |
| rbridge-id/{rbridge-number}/router/pim/reset-tracking-bit.....                        | 1139 |
| rbridge-id/{rbridge-number}/router/pim/rp-address.....                                | 1140 |
| rbridge-id/{rbridge-number}/router/pim/spt-threshold.....                             | 1141 |
| rbridge-id/{rbridge-number}/secpolicy/defined-policy.....                             | 1142 |
| rbridge-id/{rbridge-number}/snmp-server/engineid.....                                 | 1143 |
| rbridge-id/{rbridge-number}/snmp-server/offline-if.....                               | 1144 |
| rbridge-id/{rbridge-number}/snmp-server/user.....                                     | 1145 |
| rbridge-id/{rbridge-number}/snmp-server/v3host.....                                   | 1147 |
| rbridge-id/{rbridge-number}/ssh/client/cipher.....                                    | 1148 |
| rbridge-id/{rbridge-number}/ssh/client/key-exchange.....                              | 1149 |
| rbridge-id/{rbridge-number}/ssh/client/mac.....                                       | 1150 |
| rbridge-id/{rbridge-number}/ssh/server/cipher.....                                    | 1151 |
| rbridge-id/{rbridge-number}/ssh/server/key/dsa.....                                   | 1152 |
| rbridge-id/{rbridge-number}/ssh/server/key/ecdsa.....                                 | 1153 |
| rbridge-id/{rbridge-number}/ssh/server/key/rsa.....                                   | 1154 |
| rbridge-id/{rbridge-number}/ssh/server/key-exchange.....                              | 1155 |
| rbridge-id/{rbridge-number}/ssh/server/mac.....                                       | 1156 |
| rbridge-id/{rbridge-number}/ssh/server/rekey-interval.....                            | 1157 |
| rbridge-id/{rbridge-number}/ssh/server/shutdown.....                                  | 1158 |
| rbridge-id/{rbridge-number}/ssh/server/standby.....                                   | 1159 |
| rbridge-id/{rbridge-number}/ssh/server/use-vrf.....                                   | 1160 |
| rbridge-id/{rbridge-number}/switch-attributes.....                                    | 1161 |
| rbridge-id/{rbridge-number}/system-mode/maintenance.....                              | 1162 |
| rbridge-id/{rbridge-number}/system-monitor/linecard/alert.....                        | 1163 |
| rbridge-id/{rbridge-number}/system-monitor/linecard/threshold.....                    | 1164 |
| rbridge-id/{rbridge-number}/system-monitor/MM/threshold.....                          | 1165 |
| rbridge-id/{rbridge-number}/system-monitor/sfm/threshold.....                         | 1166 |
| rbridge-id/{rbridge-number}/system-monitor/cid-card/alert.....                        | 1167 |
| rbridge-id/{rbridge-number}/system-monitor/cid-card/threshold.....                    | 1168 |
| rbridge-id/{rbridge-number}/system-monitor/compact-flash/threshold.....               | 1169 |
| rbridge-id/{rbridge-number}/system-monitor/fan/alert.....                             | 1170 |
| rbridge-id/{rbridge-number}/system-monitor/fan/threshold.....                         | 1171 |
| rbridge-id/{rbridge-number}/system-monitor/power/alert.....                           | 1172 |
| rbridge-id/{rbridge-number}/system-monitor/power/threshold.....                       | 1173 |
| rbridge-id/{rbridge-number}/system-monitor/sfp/alert.....                             | 1174 |
| rbridge-id/{rbridge-number}/system-monitor/temp/threshold.....                        | 1175 |
| rbridge-id/{rbridge-number}/telnet/server/shutdown.....                               | 1176 |
| rbridge-id/{rbridge-number}/telnet/server/standby.....                                | 1177 |
| rbridge-id/{rbridge-number}/telnet/server/use-vrf.....                                | 1178 |
| rbridge-id/{rbridge-number}/threshold-monitor/cpu.....                                | 1179 |
| rbridge-id/{rbridge-number}/threshold-monitor/interface/apply.....                    | 1180 |
| rbridge-id/{rbridge-number}/threshold-monitor/interface/pause.....                    | 1181 |
| rbridge-id/{rbridge-number}/threshold-monitor/interface/policy.....                   | 1182 |
| rbridge-id/{rbridge-number}/threshold-monitor/memory.....                             | 1184 |
| rbridge-id/{rbridge-number}/threshold-monitor/security/apply.....                     | 1185 |
| rbridge-id/{rbridge-number}/threshold-monitor/security/pause.....                     | 1186 |
| rbridge-id/{rbridge-number}/threshold-monitor/security/policy.....                    | 1187 |
| rbridge-id/{rbridge-number}/threshold-monitor/sfp/apply.....                          | 1189 |
| rbridge-id/{rbridge-number}/threshold-monitor/sfp/pause.....                          | 1190 |
| rbridge-id/{rbridge-number}/threshold-monitor/sfp/policy.....                         | 1191 |
| rbridge-id/{rbridge-number}/vcs/auto-shut/lag.....                                    | 1193 |
| rbridge-id/{rbridge-number}/vrf.....  | 1194 |
| rbridge-id/{rbridge-number}/vrf/address-family/ipv4/unicast.....                      | 1195 |
| rbridge-id/{rbridge-number}/vrf/address-family/ipv4/unicast/arp.....                  | 1196 |
| rbridge-id/{rbridge-number}/vrf/address-family/ipv4/unicast/ip/import/<br>routes..... | 1197 |

|  |      |
|--|------|
| rbridge-id/{rbridge-number}/vrf/address-family/ipv4/unicast/ip/route/<br>static/bfd.....   | 1198 |
| rbridge-id/{rbridge-number}/vrf/address-family/ipv4/unicast/max-route....                  | 1200 |
| rbridge-id/{rbridge-number}/vrf/address-family/ipv4/unicast/route-target..                 | 1201 |
| rbridge-id/{rbridge-number}/vrf/address-family/ipv6/unicast.....                           | 1202 |
| rbridge-id/{rbridge-number}/vrf/address-family/ipv6/unicast/ipv6/import/<br>routes.....    | 1203 |
| rbridge-id/{rbridge-number}/vrf/address-family/ipv6/unicast/ipv6/route/<br>static/bfd..... | 1204 |
| rbridge-id/{rbridge-number}/vrf/address-family/ipv6/unicast/max-route....                  | 1206 |
| rbridge-id/{rbridge-number}/vrf/address-family/ipv6/unicast/route-target..                 | 1207 |
| rbridge-id/{rbridge-number}/vrf/ip/router-id.....  | 1208 |
| rbridge-id/{rbridge-number}/vrf/mgmt-vrf.....  | 1209 |
| rbridge-id/{rbridge-number}/vrf/rd.....  | 1210 |
| rbridge-id/{rbridge-number}/vrf/vni.....   | 1211 |
| reserved-vlan.....   | 1212 |
| rmon/alarm.....  | 1213 |
| rmon/event.....  | 1214 |
| role.....  | 1215 |
| router/fabric-virtual-gateway.....   | 1216 |
| router/fabric-virtual-gateway/address-family/ipv4.....                                     | 1217 |
| router/fabric-virtual-gateway/address-family/ipv4/accept-unicast-arp-<br>request.....      | 1218 |
| router/fabric-virtual-gateway/address-family/ipv4/enable.....                              | 1219 |
| router/fabric-virtual-gateway/address-family/ipv4/gateway-mac-address..                    | 1220 |
| router/fabric-virtual-gateway/address-family/ipv4/gratuitous-arp.....                      | 1221 |
| router/fabric-virtual-gateway/address-family/ipv6.....                                     | 1222 |
| router/fabric-virtual-gateway/address-family/ipv6/enable.....                              | 1223 |
| router/fabric-virtual-gateway/address-family/ipv6/gateway-mac-address..                    | 1224 |
| router/fabric-virtual-gateway/address-family/ipv6/gratuitous-arp.....                      | 1225 |
| rule.....  | 1226 |
| service/password-encryption.....   | 1227 |
| sflow/collector.....   | 1228 |
| sflow/enable.....  | 1229 |
| sflow/polling-interval.....  | 1230 |
| sflow/sample-rate.....   | 1231 |
| sflow/source-ip.....   | 1232 |
| sflow-profile.....   | 1233 |
| snmp-server/community.....   | 1234 |
| snmp-server/contact.....   | 1235 |
| snmp-server/context.....   | 1236 |
| snmp-server/enable.....  | 1237 |
| snmp-server/group.....   | 1238 |
| snmp-server/host.....  | 1239 |
| snmp-server/location.....  | 1240 |
| snmp-server/mib/community-map.....   | 1241 |
| snmp-server/sys-descr.....   | 1242 |
| snmp-server/user.....  | 1243 |
| snmp-server/v3host.....  | 1244 |
| snmp-server/view.....  | 1246 |
| support/autoupload.....  | 1247 |
| support/autoupload-param.....  | 1248 |
| support/ffdc.....  | 1249 |
| support/support-param.....   | 1250 |
| switch-attributes.....   | 1251 |
| system-monitor-mail/fru (email).....   | 1252 |
| system-monitor-mail/fru/enable.....  | 1253 |
| system-monitor-mail/interface (email).....   | 1254 |

|   |      |
|---|------|
| system-monitor-mail/interface/enable.....             | 1255 |
| system-monitor-mail/relay.....                        | 1256 |
| system-monitor-mail/security (email).....             | 1257 |
| system-monitor-mail/security/enable.....              | 1258 |
| system-monitor-mail/sfp (email).....                  | 1259 |
| system-monitor-mail/sfp/enable.....                   | 1260 |
| tacacs-server/host.....                               | 1261 |
| tacacs-server/source-ip.....                          | 1263 |
| username.....   | 1264 |
| vcenter/{vcenter-name}/activate.....                  | 1265 |
| vcenter/{vcenter-name}/discovery.....                 | 1266 |
| vcenter/{vcenter-name}/interval.....                  | 1267 |
| vcenter/{vcenter-name}/url.....                       | 1268 |
| vcs/virtual/ip.....                                   | 1269 |
| vcs/virtual/ipv6.....                                 | 1270 |
| vcs/virtual-fabric.....                               | 1271 |
| vlag-commit-mode/disable.....                         | 1272 |
| vlan/classifier/group.....                            | 1273 |
| vlan/classifier/rule/mac.....                         | 1274 |
| vlan/classifier/rule/proto.....                       | 1275 |
| vlan/dot1q.....                                       | 1276 |
| zoning/defined-configuration/alias.....               | 1277 |
| zoning/defined-configuration/cfg.....                 | 1278 |
| zoning/defined-configuration/zone.....                | 1279 |
| zoning/enabled-configuration/cfg-action.....          | 1280 |
| zoning/enabled-configuration/cfg-name.....            | 1281 |
| zoning/enabled-configuration/default-zone-access..... | 1282 |
| bna-config-cmd.....                                   | 1283 |
| bna-config-cmd-status.....                            | 1284 |
| dad-status.....                                       | 1285 |
| fcoe-get-interface.....                               | 1286 |
| fcoe-get-login.....                                   | 1287 |
| fwdl-status.....                                      | 1288 |
| get-arp.....  | 1291 |
| get-contained-in-ID.....                              | 1292 |
| get-flexports.....                                    | 1293 |
| get-interface-detail.....                             | 1294 |
| get-interface-switchport.....                         | 1298 |
| get-ip-interface.....                                 | 1299 |
| get-last-config-update-time.....                      | 1300 |
| last-config-update-time-for-xpaths.....               | 1301 |
| get-lldp-neighbor-detail.....                         | 1302 |
| get-mac-acl-for-intf.....                             | 1303 |
| get-mac-address-table.....                            | 1304 |
| get-media-detail.....                                 | 1305 |
| get-nameserver-detail.....                            | 1307 |
| get-netconf-client-capabilities.....                  | 1309 |
| get-port-channel-detail.....                          | 1310 |
| get-portchannel-info-by-intf.....                     | 1312 |
| get-port-profile-for-intf.....                        | 1314 |
| get-port-profile-status.....                          | 1315 |
| get-stp-brief-info.....                               | 1316 |
| get-stp-mst-detail.....                               | 1318 |
| get-system-uptime.....                                | 1322 |
| get-vcs-details.....                                  | 1323 |
| get-vlan-brief.....                                   | 1324 |
| get-vmppolicy-macaddr.....                            | 1326 |
| get-vnetwork-dvpgs.....                               | 1327 |

|  |      |
|--|------|
| get-vnetwork-dvs.....                  | 1328 |
| get-vnetwork-hosts.....                | 1329 |
| get-vnetwork-portgroups.....           | 1330 |
| get-vnetwork-vms.....                  | 1331 |
| get-vnetwork-vswitches.....            | 1332 |
| l2tracertool-result.....               | 1333 |
| maps-get-all-policy.....               | 1334 |
| maps-get-rules.....                    | 1335 |
| no-vcs-rbridge-context.....            | 1336 |
| reload.....                            | 1337 |
| set-http-application-url.....          | 1338 |
| show-bare-metal-state.....             | 1339 |
| show-clock.....                        | 1340 |
| NETCONF path.....                      | 1341 |
| show-fibrechannel-interface-info.....  | 1343 |
| show-firmware-version.....             | 1344 |
| show-linkinfo.....                     | 1346 |
| show-ntp.....                          | 1348 |
| show-portindex-interface-info.....     | 1349 |
| show-raslog.....                       | 1350 |
| show-support-save-status.....          | 1352 |
| show-system-info.....                  | 1353 |
| show-system-monitor.....               | 1354 |
| show-vcs.....                          | 1355 |
| show-zoning-enabled-configuration..... | 1358 |
| user-session-info.....                 | 1359 |
| vcs-rbridge-config.....                | 1360 |
| vcs-rbridge-context.....               | 1361 |

# Preface

---

- Document conventions.....31
- Brocade resources..... 33
- Contacting Brocade Technical Support.....33
- Document feedback..... 34

## 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<br>Identifies keywords and operands<br>Identifies the names of user-manipulated GUI elements<br>Identifies text to enter at the GUI |
| <i>italic text</i> | Identifies emphasis<br>Identifies variables<br>Identifies document titles  |
| Courier font       | Identifies CLI output<br>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.<br>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.<br>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, <i>member[member...]</i> .  |
| \             | Indicates a “soft” line break in command examples. If a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash.   |

## Notes, cautions, and warnings

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

---

### NOTE

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

---

---

### ATTENTION

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

---



### CAUTION

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

---



### DANGER

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

---



## Brocade resources

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

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

To get up-to-the-minute information on Brocade products and resources, go to [MyBrocade](#). 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

---

- [Supported hardware and software.....](#) 35
- [Using the Network OS CLI.....](#) 35
- [What's new in this document.....](#) 36

## Supported hardware and software

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

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

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

- Brocade VDX 2741
- Brocade VDX 2746
- Brocade VDX 6740
  - Brocade VDX 6740-48
  - Brocade VDX 6740-64
- Brocade VDX 6740T
  - Brocade VDX 6740T-48
  - Brocade VDX 6740T-64
  - Brocade VDX 6740T-1G
- Brocade VDX 6940-36Q
- Brocade VDX 6940-144S
- Brocade VDX 8770
  - Brocade VDX 8770-4
  - Brocade VDX 8770-8

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

## Using the Network OS CLI

For complete instructions and support for using the Network OS v6.0.1 command line interface (CLI), refer to the *Network OS Command Reference*.

## What's new in this document

This document is released in conjunction with Network OS 7.0.0.

### New NETCONF statements

- interface/port-channel/{pc-name}/esi/auto
- interface/port-channel/{pc-name}/ip/address
- interface/port-channel/{pc-name}/ipv6/address
- interface/port-channel/{pc-name}/ipv6/address/{ipv6-address}/anycast
- interface/port-channel/{pc-name}/ipv6/address/{ipv6-address}/link-local
- interface/port-channel/{pc-name}/ipv6/address/use-link-local-only
- interface/{interface-type}/{interface-name}/fabric/dport/mode
- interface/{interface-type}/{interface-name}/ip/arp/learn-any
- interface/{interface-type}/{interface-name}/ip/igmp/robustness-variable
- interface/{interface-type}/{interface-name}/ip/igmp/startup-query-count
- interface/{interface-type}/{interface-name}/ip/igmp/startup-query-interval
- interface/{interface-type}/{interface-name}/ip/unnumbered
- interface/{interface-type}/{interface-name}/snmp/trap/link-status
- interface/vlan/{vlan-number}/suppress-arp
- interface/vlan/{vlan-number}/suppress-nd
- overlay-gateway/{gateway-name}/site/{site-name}/mac-learning/protocol/bgp
- ovsdb-server
- rbridge-id/{rbridge-number}/bfd-session-setup-delay
- rbridge-id/{rbridge-number}/evpn-instance
- rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/df-delay-timer
- rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/duplicate-mac-timer
- rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/rd/auto
- rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/routetarget/both
- rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/route-target/export
- rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/routetarget/import
- rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/vni
- rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/vni/{add | remove}
- rbridge-id/{rbridge-number}/http/server/use-vrf
- rbridge-id/{rbridge-number}/host-table/aging-mode
- rbridge-id/{rbridge-number}/host-table/aging-time
- rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/anycast-address
- rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/anycast-address
- rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/snmp
- rbridge-id/{rbridge-number}/ip/anycast-gateway-mac
- bridge-id/{rbridge-number}/ip/dhcp/relay/information/option
- rbridge-id/{rbridge-number}/ipv6/anycast-gateway-mac
- rbridge-id/{rbridge-number}/maps/group
- rbridge-id/{rbridge-number}/maps/policy
- rbridge-id/{rbridge-number}/maps/rule
- rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/activate
- rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/additional-paths/  
advertise/all
- rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/additional-paths/  
advertise/best

- rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/capability/additional-paths
- rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/route-reflector-client
- rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn
- rbridge-id/{rbridge-number}/router/bgp/auto-shutdown-new-neighbors
- rbridge-id/{rbridge-number}/router/ospf/area/prefix-list
- rbridge-id/{rbridge-number}/router/pim/reset-tracking-bit
- rbridge-id/{rbridge-number}/snmp-server/offline-if
- rbridge-id/{rbridge-number}/ssh/server/use-vrf
- rbridge-id/{rbridge-number}/system-mode/maintenance
- rbridge-id/{rbridge-number}/telnet/server/use-vrf
- snmp-server/context
- snmp-server/host
- snmp-server/mib/community-map
- snmp-server/v3host
- tacacs-server/host
- vlag-commit-mode/disable

### RPCs

- show-fabric-trunk-info

### Modified NETCONF statements

- ldap-server/host - This Netconf call was modified the include the parameter *use-vrf*.
- logging/syslog-server - This Netconf call was modified the include the parameter *use-vrf*.
- overlay-gateway/{gateway-name}/type - This Netconf call was modified to deprecate the **nsx** keyword and replace it with the **hardware-vtep** keyword, supporting both NSX Controller and OpenStack deployments.
- radius-server - This Netconf call was modified the include the parameter *use-vrf*.
- sflow/collector - This Netconf call was modified the include the parameter *use-vrf*.

What's new in this document

# NETCONF Overview

---

- NETCONF and YANG.....39
- NETCONF in client/server architecture.....39
- RPC request.....40
- RPC reply.....40
- RPC and error handling.....40
- SSH subsystem.....41
- RFC references.....41
- NETCONF support in Network OS.....41

## NETCONF and YANG

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

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

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

NETCONF is partitioned conceptually into four layers, as shown in

## NETCONF in client/server architecture

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

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

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

## RPC request

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

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

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

## RPC reply

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

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

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

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

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

## RPC and error handling

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

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

### Partial success behavior in logical chassis

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

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="2">
  <rpc-error>
    <error-type>application</error-type>
    <error-tag>operation-failed</error-tag>
    <error-severity>error</error-severity>
    <error-message unknown:lang="en">FRAMEWORK_CLUSTER_PARTIAL_SUCCESS |
Warning: Operation context "/qos:nas/server-ip[server-ip="10.0.0.0724"]/vrf[vrf-
name="Testing_Vrf"]".
Cluster wide operation failed on Rbridge-id(s): 6. Succeeded on Rbridge-id(s): 1.
```



```
Rbridge-id(s): 6 Reason: %Error: Command is not supported on this platform.</error-
message>
  </rpc-error>
</rpc-reply>
```

## SSH subsystem

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

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

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

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

## RFC references

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

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

## NETCONF support in Network OS

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

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

**TABLE 1** NETCONF RPCs supported in Network OS

| RPC           | Function   | Support in Network OS                    |
|---------------|--|--|
| <copy-config> | Copies the startup configuration to the running configuration, copies the running configuration to the startup configuration, copies the startup or running configuration to a remote file, or copies the remote file to the startup or running configuration. | Use <bna-config-cmd> custom RPC instead. |

**TABLE 1** NETCONF RPCs supported in Network OS (Continued)

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

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

# Using NETCONF

---

- Establishing a NETCONF session..... 43
- Retrieving configuration data..... 45
- Retrieving operational data..... 48
- Editing the configuration..... 51
- Managing the configuration..... 52
- Disconnecting from a NETCONF session..... 53

## Establishing a NETCONF session

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

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

### Hello messages exchange

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

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

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

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

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

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

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

```
<hello xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <capabilities>
    <capability>urn:ietf:params:netconf:base:1.0</capability>
    <capability>urn:ietf:params:netconf:capability:writable-running:1.0    </
capability>
    <capability>urn:ietf:params:netconf:capability:startup:1.0</capability>
    <capability>urn:ietf:params:netconf:capability:xpath:1.0</capability>
    <capability>urn:ietf:params:netconf:capability:validate:1.0</capability>
    <capability>http://tail-f.com/ns/netconf/actions/1.0</capability>
    <capability>http://tail-f.com/ns/aaa/1.1?revision=2010-06-17&module=tailfaaa</
```

```

capability>
  <capability>urn:brocade.com:mgmt:brocade-aaa?
revision=2010-10-21&module=brocade-aaa</capability>
  <capability>urn:brocade.com:mgmt:brocade-aaa-ext?
revision=2010-09-21&module=brocade-aaa-ext</capability>
  <capability>urn:brocade.com:mgmt:brocade-cdp?
revision=2010-08-17&module=brocade-cdp</capability>
  <capability>urn:brocade.com:mgmt:brocade-cee-map?
revision=2011-04-18&module=brocade-cee-map</capability>
  <capability>urn:brocade.com:mgmt:brocade-chassis?
revision=2011-04-11&module=brocade-chassis</capability>
</capabilities>
(output truncated)
<session-id>4</session-id>
</hello>

```

## Server capabilities

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

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

The following capabilities are supported on Network OS switches:

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

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

---

### NOTE

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

---

## Client capabilities

The client must support the base capability.

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

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

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

## Retrieving configuration data

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

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

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

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

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

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

## Subtree filtering

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

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

```
<?xml version="1.0" encoding="UTF-8"?>
<rpc message-id="201" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <get-config>
    <source>
      <running/>
    </source>
    <filter type="subtree">
      <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <fc-port/>
      </interface>
    </filter>
  </get-config>
</rpc>
```

The purpose of each filter element is as follows:

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

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

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

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

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

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

```
<?xml version="1.0" encoding="UTF-8"?>
<rpc message-id="204" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <get-config>
    <source>
      <running/>
    </source>
    <filter type="subtree">
      <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
        <fc-port>
          <name>8/0/1</name>
        </fc-port>
      </interface>
    </filter>
  </get-config>
</rpc>

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

## xpath filtering

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

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

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

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

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

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:
1.0"xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="205">
  <data>
```

```

<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>0/59</name>
    <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
      <default-cos>0</default-cos>
      <cos-mutation>test</cos-mutation>
    </qos>
  </tengigabitethernet>
  <tengigabitethernet>
    <name>0/60</name>
    <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
      <default-cos>0</default-cos>
      <cos-mutation>test</cos-mutation>
    </qos>
  </tengigabitethernet>
</interface>
</data>
</rpc-reply>

```

## Retrieving operational data

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

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

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

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

## Using custom RPCs

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

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

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

```

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

```

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

```

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

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

```



```

        <name>auto-VM_Network</name>
    </port-profile>
</interface>
<interface xmlns="urn:brocade.com:mgmt:brocade-port-profile-ext">
    <interface-type>tengigabitethernet</interface-type>
    <interface-name>9/0/54</interface-name>
    <port-profile>
        <name>auto-for_iscsi</name>
    </port-profile>
</interface>
</rpc-reply>

```

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

### **Retrieving operational data with pagination**

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

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

```

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

```

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

```

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

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

```

```

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

```

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

```

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

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

```

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

## Using the custom action mechanism

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

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

```

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

```

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

```

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

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
  xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="209">
  <zoning xmlns="urn:brocade.com:mgmt:brocade-zone">
    <db-max>1045274</db-max>
    <db-avail>1043895</db-avail>
    <db-committed>367</db-committed>
    <db-transaction>373</db-transaction>
    <transaction-token>1</transaction-token>
    <last-zone-changed-timestamp>2011-11-16 16:54:31 GMT-7:00</last-zone-changed-
timestamp>

```

```

        <last-zone-committed-timestamp>2011-11-16 16:23:44 GMT-7:0</last-zone-
committed-timestamp>
    </zoning>
</rpc-reply>

```

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

## Editing the configuration

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

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

---

### NOTE

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

---

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

```

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

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

```

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

```

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

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

```

```
<ok/>
</rpc-reply>
```

## Managing the configuration

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

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

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

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

The most common configuration management operation is to copy the *running-config* file to the *startup-config* file. You must perform this operation to save configuration changes across reboots. To copy the *running-config* file to the *startup-config* file, issue the following RPC.

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="212">
  <bna-config-cmd xmlns="urn:brocade.com:mgmt:brocade-ras">
    <src>running-config</src>
    <dest>startup-config</dest>
  </bna-config-cmd>
</rpc>

<rpc-reply message-id="212" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <session-id xmlns="urn:brocade.com:mgmt:brocade-ras">5</session-id>
  <status xmlns="urn:brocade.com:mgmt:brocade-ras">in-progress</status>
</rpc-reply>
```

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

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

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

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

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

<rpc-reply message-id="212" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <session-id xmlns="urn:brocade.com:mgmt:brocade-ras">6</session-id>
```

```

    <status xmlns="urn:brocade.com:mgmt:brocade-ras">in-progress</status>
  </rpc-reply>

```

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

```

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

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

```

## Disconnecting from a NETCONF session

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

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

```

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

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

```

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

Disconnecting from a NETCONF session

# Basic switch management with NETCONF overview

---

- [Connecting to the switch through an SSH session..... 55](#)

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

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

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

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

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

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

## Connecting to the switch through an SSH session

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

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

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

7. Verify that the login was successful.

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

```
login as: admin
admin@10.20.49.112's password:*****
```

```
-----
WARNING: The default password of 'admin' and 'user' accounts have not been changed.
```

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

Connecting to the switch through an SSH session



# Sample use cases for Network OS NETCONF

---

- [VRF configuration](#)..... 57
- [STP overview](#)..... 58

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

---

## NOTE

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

---

## VRF configuration

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

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

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

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

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

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

## Configuring VRF

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

### 1. Configure VRF "Red".

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

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

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

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

```

        <unicast></unicast>
    </ip>
</address-family>
</vrf>
</rbridge-id>

```

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

```

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

```

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

```

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

```

### 5. Assign it to an area

```

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

```

### 6. Bind the interface to the VRF instance

```

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

```

## STP overview

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

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

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

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

A port participating in spanning tree moves through these states:

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

## Configuring STP

The process for configuring STP is as follows:

1. Enable STP using the below NETCONF statement.

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

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

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

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

---

### NOTE

Note the following conditions:

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

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

## Configuring RSTP

The process for configuring RSTP is as follows.

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

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

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

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

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

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

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

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

5. Enable the error-disable-timeout timer.

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

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

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

# NETCONF Commands

---

## aaa/accounting/commands

Enables command accounting.

### Usage

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

### Parameters

#### *server-type*

The following server types can be set:

#### **none**

Disables accounting

#### **tacacs+**

Uses TACACS+ servers

## aaa/accounting/exec

Enables login accounting.

### Usage

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

### Parameters

#### *server-type*

The following server types can be set:

#### **none**

Disables accounting

#### **tacacs+**

Uses TACACS+ servers

# aaa/authentication

Configures the AAA login sequence.

## Usage

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

## Parameters

### *first*

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

#### **default**

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

#### **ldap**

Specifies the Lightweight Directory Access Protocol (LDAP) servers

#### **local**

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

#### **local-auth-fallback**

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

#### **local**

Specifies the local switch database

#### **radius**

Specifies the RADIUS servers

#### **local**

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

#### **local-auth-fallback**

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

#### **tacacs+**

Specifies the TACACS+ servers

#### **local**

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

#### **local-auth-fallback**



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

## alias-config/alias

Configures the global alias for switch commands.

### Usage

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

### Parameters

*name*

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

*expansion*

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

## alias-config/user

Configures the user-level alias for switch commands.

### Usage

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

### Parameters

**user name**

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

**alias name**

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

**expansion**

Specifies the user alias expansion

## arp

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

### Usage

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

### Parameters

*acl-name*

Specifies the name of the ARP ACL. The name can be up to 63 characters in length, and must begin with an alphanumeric character. No special characters are allowed, except for the underscore and hyphen

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

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

### Usage

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

### Parameters

*acl-name*

Specifies the name of the ARP ACL. The name can be up to 63 characters in length, and must begin with an alphanumeric character. No special characters are allowed, except for the underscore and hyphen

*host-ip*

Specifies the sender IP address

*host-mac*

Specifies the sender MAC address, in hexadecimal format

*log*

Enables logging for this permit rule

## banner/incoming

Sets the incoming banner message.

### Usage

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

### Parameters

*incoming*

Specifies the message string to be displayed on the switch console. The number of lines can be from 1 through 2048. Enter incoming banner text in single line mode or press ESC-M to enter multiline mode

## banner/login

Sets the switch banner.

### Usage

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

### Parameters

*login*

Specifies the message string to be displayed on the switch console

## banner/motd

Sets the message of the day (MOTD) banner.

### Usage

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

### Parameters

*motd*

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



## cee-map

Enables CEE map.

### Usage

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

### Parameters

*name*

Specifies the CEE map name

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

Sets the precedence of the CEE map.

### Usage

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

### Parameters

*name*

Specifies the CEE map name

*precedence*

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

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

Configures the bandwidth for each priority group.

### Usage

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

### Parameters

*name*

Specifies the CEE map name

*PGID*

Specifies the priority group ID (PGID) assigned to a priority group. The value can range from 15.0 through 15.7 for the eight reserved Strict Priority PGIDs

*weight*

Maps a weight to a Deficit Weighted Round Robin (DWRR) scheduler queue. This parameter is only valid for the DWRR Priority Group. The sum of all DWRR Priority Group weight values must equal 100 percent. The value can range from 1 through 100

*pfc*

Enables the Priority-based Flow Control (PFC) for each priority that gets mapped to the priority group

**on**

Enables PFC

**off**

Disables PFC

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

Configures priority table.

### Usage

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

### Parameters

#### priority-table

Mapping CoS 0 to 7 to priority group table

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

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

### Usage

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

### Parameters

*fabric-remapped-priority*

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

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

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

### Usage

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

### Parameters

*lossless-remapped-priority*

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

# class-map

Configures class map.

## Usage

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

## Parameters

*name*

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

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

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

### Usage

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

### Parameters

*access-group-name*

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



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

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

### Usage

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

### Parameters

*rbridge-id*

Specifies an RBridge ID on which POST is run

**enable**

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

## dot1x/enable

Enables 802.1X authentication globally.

### Usage

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

### Parameters

**enable**

Enables global port authentication

# dot1x/test

Configures the 802.1X readiness test timeout.

## Usage

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

## Parameters

*timeout*

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

## dpod/{dpod-port}/reserve

Manages Dynamic Ports on Demand (POD) assignments.

### Usage

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

### Parameters

*port-id*

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

*operation*

The following operations are allowed:

**release**

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

**reserve**

Reserves a POD assignment for a port that is currently not able to come online but is expected to be viable in the future. A port license assignment that is reserved will be associated with the first port set that has a vacancy

# event-handler

Creates an event-handler profile

## Usage

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

## Parameters

*name*

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

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

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

### Usage

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

### Parameters

*name*

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

*python-script*

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

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

Defines a description for an event-handler profile.

### Usage

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

### Parameters

*name*

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

*description*

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

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

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

Configures a RASlog message ID as the trigger

### Usage

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

### Parameters

*name*

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

*trigger-id*

Specifies a RASlog message ID as the trigger

*raslog*

Specifies the Raslog ID



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

Configures a switch event as the trigger.

### Usage

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

### Parameters

#### *name*

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

#### *trigger-id*

Specifies a switch event as the trigger

#### *vcs*

Valid switch-event values are as follows:

##### **switch-bootup**

The switch booted and boot-time configuration is applied

##### **switch-ready-for-configuration**

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

- Fabric Cluster mode—if switch boot-time configuration is applied and the startup file replayed
- Logical Chassis mode—if cluster formation is completed and all cluster nodes are online

## fabric

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

### Usage

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

### Parameters

*rbridge-id*

Specifies an RBridge ID

*priority*

Specifies the priority number of the RBridge ID. The highest priority overrides the lowest RBridge ID and becomes the root.

## fcoe/fabric-map

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

### Usage

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

### Parameters

*fcoe-fabric-map-name*

Specifies the FCoE Fabric-map name

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

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

### Usage

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

### Parameters

*fcoe-fabric-map-name*

Specifies the FCoE Fabric-map name

*fcoe-fip-advertisement-interval*

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

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

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

### Usage

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

### Parameters

*fcoe-fabric-map-name*

Specifies the FCoE Fabric-map name

*fcf-map-name*

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

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

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

### Usage

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

### Parameters

*fcoe-fabric-map-name*

Specifies the FCoE Fabric-map name

*fcf-map-name*

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

*fcf-map-fcf-rbid*

Specifies the RBridge ID of the AG functioning as the FCF

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

Adds or removes an RBridge ID from the map.

### Usage

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

### Parameters

*fcoe-fabric-map-name*

Specifies the FCoE Fabric-map name

*fcf-map-name*

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

*fcf-map-fif-rbid-add*

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

*fcf-map-fif-rbid-remove*

Removes one or more RBridge IDs. Comma delimiters and ranging (with a hyphen) are allowed

## fcoe/fabric-map/{fabric-map-name}/fcmmap

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

### Usage

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

### Parameters

*fcoe-fabric-map-name*

Specifies the FCoE Fabric-map name

*fcoe-fabric-map-fcmmap*

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



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

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

### Usage

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

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

### Parameters

*fcoe-fabric-map-name*

Specifies the FCoE fabric map name

*fcport-group-rbid-add*

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

*fcport-group-rbid-remove*

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

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

Enables or disables keep-alive timeout.

### Usage

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

### Parameters

*fcoe-fabric-map-name*  
FCoe Fabric-map name

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

Configures the priority for the FCoE Fabric-map.

### Usage

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

### Parameters

*fcoe-fabric-map-name*

FCoE Fabric-map name

*fcoe-fabric-map-priority*

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

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

Configures the san mode

### Usage

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

### Parameters

*fcoe-fabric-map-name*  
FCoE Fabric-map name

*fcoe-fabric-mode*  
FCoE san-mode

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

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

### Usage

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

### Parameters

*fcoe-fabric-map-name*

FCoE Fabric-map name

*fcoe-fabric-map-virtual-fabric*

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

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

Configures the VLAN for FCoE Fbaric-map.

### Usage

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

### Parameters

*fcoe-fabric-map-name*

FCoE Fabric-map name

*fcoe-fabric-map-vlan*

FCoE VLAN. The value can range from 2 through 4090

# hardware/connector

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

## Usage

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

## Parameters

*name*

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

## hardware/connector/{connector-name}/sfp

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

### Usage

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

### Parameters

*name*

Specifies the connector name

**breakout**

Enables breakout port



## hardware/connector-group

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

### Usage

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

### Parameters

*id*

Specifies a valid Fibre Channel port interface

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

Configures the protocol and speed for the FlexPort connector group.

### Usage

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

### Parameters

*id*

Specifies the connector group ID

**speed**

Specifies the speed can be any of the following values:

#### **FibreChannel**

Sets the speed to support only fibre channel speeds and protocol. All FlexPorts in this connector-group must be converted to fibre-channel in order to use the FibreChannel connector-group speed

#### **HighMixed**

Sets the speed to 16G Fibre Channel and Ethernet speeds

#### **LowMixed**

Sets to speed to 2/4/8G Fibre Channel and Ethernet speeds

# hardware/custom-profile

Enables the user to specify a customized hardware profile.

## Usage

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

## Parameters

*name*

Specifies the name of the user-specified profile

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

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

### Usage

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

### Parameters

*name*

Specifies the name of the user-specified profile

*bfd\_l3\_hello\_interval*

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

*bfd\_l3\_num\_entry*

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

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

Configures protocol KAP parameters for BFD VXLANs.

### Usage

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

### Parameters

*name*

Specifies the name of the user-specified profile.

*bfd\_vxlan\_hello\_interval*

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

*bfd\_vxlan\_num\_entry*

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

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

Configures protocol KAP parameters for FCoE.

### Usage

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

### Parameters

*name*

Specifies the name of the user-specified profile

*fcoe\_hello\_interval*

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

*fcoe\_num\_entry*

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

*VDX67XX*

The value can be set to 64

*VDX6940-X*

The value can be set to 144

*VDX8770-X*

The value can be set to 769

## hardware/custom-profile/{profile-name}/lACP

Configures protocol KAP parameters for Link Aggregation Control Protocol.

### Usage

```
<hardware xmlns="urn:brocade.com:mgmt:brocade-hardware">
  <custom-profile>
    <kap-custom-profile>
      <name>kap1</name>
      <lACP>
        <lACP_hello_interval>1000</lACP_hello_interval>
        <lACP_num_entry>50</lACP_num_entry>
      </lACP>
    </kap-custom-profile>
  </custom-profile>
</hardware>
```

### Parameters

#### *name*

Specifies the name of the user-specified profile

#### *lACP\_hello\_interval*

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

#### *lACP\_num\_entry*

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

##### *VDX67XX*

The value can range from 0 through 64

##### *VDX6940-X*

The value can range from 0 through 144

##### *VDX8770-X*

The value can range from 0 through 769

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

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

### Usage

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

### Parameters

*name*

Specifies the name of the user-specified profile

*rpvst\_hello\_interval*

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

*rpvst\_num\_entry*

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

*VDX67XX*

The value can range from 0 through 128

*VDX6940-X*

The value can range from 0 through 512

*VDX8770-X*

The value can range from 0 through 512



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

Configures protocol KAP parameters for Unidirectional Link Detection.

### Usage

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

### Parameters

*name*

Specifies the name of the user-specified profile

*udld\_hello\_interval*

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

*udld\_num\_entry*

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

*VDX67XX*

The value can range from 0 through 64

*VDX6940-X*

The value can range from 0 through 144

*VDX8770-X*

The value can range from 0 through 769

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

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

### Usage

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

### Parameters

*name*

Specifies the name of the user-specified profile

*xstp\_hello\_interval*

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

*xstp\_num\_entry*

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

*VDX67XX*

The value can range from 0 through 64

*VDX6940-X*

The value can range from 0 through 144

*VDX8770-X*

The value can range from 0 through 769

## hardware/flexport

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

### Usage

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

### Parameters

*id*

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

## hardware/flexport/{flexport-name}/type

Configures the interface type.

### Usage

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

### Parameters

*id*

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

*type*

Specifies the interface type. Two types of interface are allowed

#### **Ethernet**

Ethernet interface

#### **FibreChannel**

FibreChannel interface

## interface/fcoe/{fcoe-port}/bind

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

### Usage

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

### Parameters

*name*

Specifies the FCoE port number

*bind*

Specifies the binding type

*<N>gigabitethernet*

Represents a valid, physical Ethernet subtype for all available Ethernet speeds. Enter ? to see which interface subtypes are available. Replace

*<N>gigabitethernet* with the desired operand (for example, *tengigabitethernet* specifies a 10-Gb Ethernet port)

**port-channel** *number*

Specifies a port-channel interface

**mac-address** *address*

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

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

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

### Usage

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

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

### Parameters

*name*

Specifies the Fibrechannel port number

**fec-enable**

Enables Forward Error Correction (FEC) on an interface port

## interface/fibrechannel/{fc-port-name}/isl-r\_rdy

Sets the flow control primitive used to prevent frame drop to ISL R\_RDY mode.

### Usage

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

### Parameters

*name*

Specifies the Fibrechannel port number

*isl-r\_rdy-mode*

Enables ISL R\_RDY mode on a port

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

Configures the speed of the FibreChannel port.

### Usage

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

### Parameters

*name*

Specifies the name of the FibreChannel port

*fc-port-speed*

Specifies the speed of the Fibrechannel port



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

Enables port trunking on a Fibre Channel port.

### Usage

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

### Parameters

*name*

Specifies the Fibrechannel port number

**trunk-enable**

Enables port trunking on a Fibre Channel port

## interface/management

Configures management port.

### Usage

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

### Parameters

*name*

Specifies the management port number

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

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

### Usage

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

### Parameters

*name*

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

*auto-value-assignee*

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

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

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

Configures an IP address of an interface.

### Usage

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

### Parameters

*name*

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

*address*

Specifies the IP address in dotted decimal/Mask format

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

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

Configures the IPv6 address of an interface.

## Usage

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

## Parameters

*name*

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

*address*

Specifies the IPv6 address

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

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

Configures IPv6 address as anycast.

## Usage

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

## Parameters

*name*

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

*address*

Specifies the IPv6 address

**anycast**

Sets IPv6 address as anycast

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

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

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

## Usage

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

## Parameters

*name*

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

*link-local-address*

Specifies the IPv6 link-local address

**link-local**

Sets IPv6 address to override automatically computed link-local address

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

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

Configures automatically configured link-local address.

## Usage

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

## Parameters

*name*

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

**use-link-local-only**

Sets IPv6 address to automatically configured link-local address

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |



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

Configures load balancing commands.

## Usage

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

## Parameters

### *name*

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

### *load-balance*

Configures load balancing

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

Destination MAC address and VID-based load balancing

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

Source and Destination IP address-based load balancing

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

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

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

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

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

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

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

Source and Destination MAC address and VID-based load balancing

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

Source MAC address and VID-based load balancing

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

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

### Usage

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

### Parameters

*name*

Specifies the port channel number

*minimum-links*

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

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

Configures port channel speed.

### Usage

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

### Parameters

*name*

Specifies the port channel number

*po-speed*

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

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

Configures Virtual LAG.

### Usage

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

### Parameters

*name*

Specifies the port-channel name

**ignore-split**

Enables vlag ignore-split-recovery

# interface/tengigabitethernet

Configures TengigabitEthernet interface port.

## Usage

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

## Parameters

*name*

Specifies tengigabitethernet interface port

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*min-tx*

Specifies the interval a device waits to send a control packet to BFD peers. The value is in milliseconds. The value can range from 50 to 30000 milliseconds. The default value is 500 on Brocade VDX 6740, VDX 6740T, and VDX 6940 platforms. The default value is 200 on Brocade VDX 8770 platforms

*min-rx*

Specifies the interval a device waits to receive a control packet from BFD peers. The value is in milliseconds. The value can range from 50 through 30000 milliseconds. The default value is 500 on Brocade VDX 6740, VDX 6740T, and VDX 6940 platforms. The default value is 200 on Brocade VDX 8770 platforms

*multiplier*

Specifies the number of consecutive BFD control packets that must be missed from a BFD peer before BFD determines that the connection to that peer is not operational. The value can range from from 3 through 50. The default value is 3

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

Disables Bidirectional Forwarding Detection (BFD) on an interface.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*bfd-shutdown*

Disables the BFD session

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**enable**

Enables BPDU-drop

*direction*

Specifies the tunneling direction

**tx**

Disables tunneling in the transmit direction

**rx**

Disables tunneling in the receive direction

**all**

Disables tunneling in both the transmit and receive directions



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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*cee*

Applies default CEE map

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

Enables Link Aggregation on an interface.

### Usage

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

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

### Parameters

#### *name*

Specifies the interface name

#### *port-int*

Specifies a Link Aggregation Group (LAG) port channel-group number to which this link should administratively belong to. The value can range from 1 through 6144

#### *mode*

Specifies the mode of Link Aggregation

##### **active**

Enables the initiation of LACP negotiation on an interface

##### **on**

Enables static link aggregation on an interface

##### **passive**

Disables LACP on an interface

#### *type*

Specifies the type of LAG

##### **brocade**

Specifies the Brocade proprietary hardware-based trunking

##### **standard**

Specifies the 802.3ad standard-based LAG

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*description*

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

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

Designates a port as being connected to a storage device.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

#### **deviceconnectivity**

Sets device connectivity to one of the following IP storage device

##### **DAS**

Indicates interface's device connectivity to DAS device

##### **NAS**

Indicates interface's device connectivity to NAS device

##### **None**

Indicates the port is not connected to a storage device

##### **iSCSI**

Indicates interface's device connectivity to iSCSI device

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

Enables 802.1X authentication on a port.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*authentication*

Enables dot1x on a port

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

Controls port-state authorization.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*port-control*

The following three port options are available

**auto**

Enables authentication on a port. The controlled port is unauthorized until authentication takes place between the client and authentication server. Once the client passes authentication, the port becomes authorized. This has the effect of activating authentication on an 802.1x-enabled interface

**force-authorized**

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

**force-unauthorized**

Forces a port to remain in an unauthorized state.

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

Sets the protocol version.

### Usage

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

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

### Parameters

*name*

Specifies the name of the interface

*protocol-version*

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

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*quiet-period*

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



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

Enables 802.1X port reauthentication.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**reauthentication**

Enables reauthentication on a port

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*reauthMax*

Specifies the maximum number of reauthentication attempts before the port goes to the unauthorized state. The value can range from 1 through 10. The default value is 2

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

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

## Usage

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

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

## Parameters

*name*

Specifies the interface name

*re-authperiod*

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

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*server-timeout*

Specifies the number of seconds that a switch waits for the response from the 802.1X authentication server. The value can range from 1 through 65535 seconds. The default value is 30 seconds

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

Configures the EAP response timeout for 802.1X authentication.

## Usage

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

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

## Parameters

*name*

Specifies the interface name

*supp-timeout*

Specifies the number of seconds that the switch waits for a response to the EAP frame. The value can range from 1 through 65535 seconds. The default value is 30 seconds

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

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

### Usage

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

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

### Parameters

*name*

Specifies the name of the interface

*tx-period*

Specifies the time between successive request ID attempts. The value can range from 1 through 65535. The default transmission period is 30 seconds

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

Sets the ELD priority for a port.

### Usage

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

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

### Parameters

*name*

Specifies the interface type

*eldprio*

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

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*eldvlan*

Specifies the VLAN ID



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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*fabric-dport-mode*

Specifies the dport mode

**dynamic**

Configures the interface to support dynamic D\_Port testing

**none**

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

**static**

Configures the interface to support static D\_Port testing

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

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

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

### Usage

Supported interface types are: FortyGigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

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

### Parameters

- name*  
Specifies the interface name
- fabric-isl-enable*  
Enables fabric isl status

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**disable**

Disables neighbor discovery for this port

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

Enables trunking on a port.

### Usage

Supported interface types are: FortyGigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

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

### Parameters

*name*

Specifies the interface name

*fabric-trunk-enable*

Enables fabric trunk status

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

Configures the port to be an FCoE port.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*fcoeport-map*

Specifies the name of the FCoE fabric map.

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

Accepts the RIP\_NN request.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*fcoeport-map*

Specifies the Fcoeport name

**ns-ip-registration**

Enables the RIP\_NN request

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*ip-access-list*

Specifies the ACL name

*ip-direction*

Specifies the IP direction

**in**

Specifies the ACL binding direction as ingress

**out**

Specifies the ACL binding direction as egress.

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

Configures an IP address.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*address*

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

**ospf-ignore**

Disables adjacency formation with OSPF neighbors and advertisement of the interface to OSPF

**ospf-passive**

Disables adjacency formation with OSPF neighbors but does not disable advertisement of the interface to OSPF

**secondary**

Specifies that the configured address is a secondary IP address. If this keyword is omitted, the configured address is the primary IP address



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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**trust**

Sets the interface as trusted

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**learn-any**

Enables ARP learning from any ARP request

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*arp-aging-timeout*

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

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

Configures the IP DHCP Relay on a Layer 3 interface.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*relay-ip-addr*

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

*server-vrf-name*

Use this option if the VRF where the DHCP server is located is different from the VRF of the interface where the client is connected. Specifies the VRF name

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

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

## Usage

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

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

## Parameters

*name*

Specifies the interface name

*gateway*

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

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**directed-broadcast**

Enables directed IP broadcasts forwarding

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

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

## Usage

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

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

## Parameters

*name*

Specifies the interface name

**address-mask**

Enables ICMP address mask

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

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

### Usage

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

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

### Parameters

- name*  
Specifies the name of the interface
- echo-reply*  
Enables echo-reply



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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*rate-limiting*

Specifies the time interval per ICMP packet in milliseconds. The interval can range from 1 through 4294967295. The default value is 1000 milliseconds

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

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

### Usage

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

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

### Parameters

***name***

Specifies the interface name

***redirect***

Enables IPv4 Internet Control Message Protocol (ICMP) Redirect messages

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**unreachable**

Enables destination unreachable messages

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**immediate-leave**

Enables immediate leave processing

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

Sets the last-member query count.

## Usage

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

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

## Parameters

*name*

Specifies the interface name

*last-member-query-count*

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

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.            | This Netconf call was introduced. |

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

Configures last member query interval.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*last-member-query-interval*

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

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*query-interval*

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

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

Configures the maximum response time for IGMP queries

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*query-max-response-time*

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



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

Configures the robustness variable.

## Usage

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

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

## Parameters

*name*

Specifies the interface name

*robustness-variable*

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

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

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

Configures the start up query count.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*startup-query-count*

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

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

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

Configures the start up query interval.

## Usage

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

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

## Parameters

*name*

Specifies the interface name

*startup-query-interval*

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

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

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

Sets IP MTU value to the interface.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*mtu*

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

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*mcast-bdry-prefix-list*

Specifies the name of a prefix list. The value can range from 1 through 63 characters. Although the first character must be alphabetic, the others can be alphanumeric, underscores (\_), or minus signs (-)

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

Enables Open Shortest Path First (OSPF) active information.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**active**

Enables active information

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

Configures OSPF areas.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*area*

Species the area id in IP address or decimal format

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

Configures authentication change wait time.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*auth-change-wait-time*

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



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

Configures simple password-based authentication for OSPF..

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*encrypttype*

The following encryption types are available

**0**

No encryption. OSPF processes password as a plain text password

**2**

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

**255**

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

*auth-key*

Specifies the OSPF password

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*intf-bfd-enable*

Enables BFD operation mode

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

Configures interface cost.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*cost*

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

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

Filters all external OSPF LSAs during synchronization and flooding.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**all-external**

Blocks all external LSAs

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

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

**allow-default-out**

Allows default-route LSAs, but block all other LSAs

**out**

Filters outgoing LSAs

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

Filters all OSPF LSAs during synchronization and flooding.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**all-out**

Blocks all LSAs

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

Filters all summary external OSPF LSAs during synchronization and flooding.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**all-summary-external**

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

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

Database filter allows default type-4

**allow-default-out**

Database filter allows default

**out**

Database filter allows all

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*dead-interval*

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

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*hello-interval*

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



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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*key-activation-wait-time*

Specifies the time that OSPF waits before activating a new key. Time OSPF waits before activating a new MD5 key. This parameter provides a graceful transition from one MD5 key to another without disturbing the network. All new packets transmitted after the wait time ends will use the newly configured MD5 Key. OSPF packets that contain the old MD5 key are accepted for up to five minutes after the new MD5 key is in operation. The wait time can range from 0 through 14400 seconds. the default value is 300 seconds

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

Configures MD5 key and OSPF password.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*key-id*

Specifies MD5 authentication key ID table. MD5 key and OSPF password. The value can range from 1 through 255. This parameter is required to differentiate among multiple keys defined on a router. When MD5 is enabled, the key is an alphanumeric password of up to 16 characters that is later encrypted and included in each OSPF packet transmitted. You must enter a password in this field when the system is configured to operate with either simple or MD5 authentication. By default, the MD5 authentication key is encrypted

*key*

Specifies the encryption key

**0**

No encryption. OSPF processes password as a plain text password

**2**

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

**255**

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

*md5-authentication-key*

Specifies the OSPF password

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**mtu-ignore**

Disables OSPF MTU mismatch detection

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*network*

Specifies the network type

**broadcast**

Network type is broadcast, such as Ethernet

**non-broadcast**

Network type is point-to-point

**point-to-point**

Point-to-point interface mode

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

Configures an OSPF interface as passive.

## Usage

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

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

## Parameters

*name*

Specifies the interface name

**passive**

Enables passive information

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

Configures priority for designated router (DR) election.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*priority*

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

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

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

## Usage

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

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

## Parameters

*name*

Specifies the interface name

*retransmit-interval*

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

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*transmit-delay*

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



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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*dr-priority*

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

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*neighbor-filter*

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

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

Enables Protocol Independent Multicast Sparse Mode.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**pim-sparse**

Enables PIM sparse mode

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*route-map-name*

Specifies the name of the route-map

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

Enables proxy ARP on an interface.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**proxy-arp**

Enables proxy ARP

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

Designates the interface as an unnumbered IP interface.

### Usage

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

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

### Parameters

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

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

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

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

### Usage

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

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

### Parameters

#### *name*

Specifies the interface name

#### *ipv6-access-list*

Specifies the name of the standard or extended IP access list

#### *ip-direction*

Specifies the binding direction

##### **ingress**

Ingress direction

##### **egress**

Egress direction

#### *traffic-type*

Specifies the traffic type

##### **routed**

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

##### **switched**

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

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*address*

Specifies the IPv6 address

**anycast**

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



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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*address*

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

**eui64**

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

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

Configures an explicit link-local address on an interface.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*link-local-address*

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

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

Configures an automatically computed link-local address.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**use-link-local-only**

Enables automatic computed link-local address

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

Configures the IPv6 DHCP Relay on a Layer 3 interface.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*relay-ip-addr*

Specifies the IPv6 address of the DHCP server where the DHCP client requests are to be forwarded

*use-vrf*

Use this option if the VRF where the DHCP server is located is different from the VRF of the interface where the client is connected. Specifies the VRF name

*interface-type*

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

*interface-name*

The interface number

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

Enables hop-by-hop trap on an interface.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**hop-by-hop-tra**

Enables hop-by-hop trap on an interface

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

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

### Usage

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

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

### Parameters

**name**

Specifies the interface name

**echo-reply**

Enables the generation of an IPv6 ICMPv6 Echo Reply message

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

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

## Usage

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

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

## Parameters

### *name*

Specifies the interface name

### *rate-limiting*

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

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

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

### Usage

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

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

### Parameters

***name***

Specifies the interface name

***redirect***

Enables IPv6 ICMPv6 redirect messages



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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**unreachable**

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

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*mtu*

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

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

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

## Usage

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

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

## Parameters

*name*

Specifies the interface name

**broadcast-mac-trap**

Enables the trap for all the IPv6 packets with broadcast mac

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*expire*

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

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*attempts*

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

*time*

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

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*hoplimit*

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

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

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

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**managed-config-flag**

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

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

Sets the size of the maximum transmission unit (MTU) that is advertised in Neighbor Discovery Router Advertisement (RA) messages.

### Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/1</name>
    <ipv6>
      <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
        <ipv6-intf-cmds>
          <nd>
            <mtu>1550</mtu>
          </nd>
        </ipv6-intf-cmds>
      </ipv6-nd-ra>
    </ipv6>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the name of the interface

*mtu*

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



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

Configures the interval for address resolution between IPv6 Neighbor Discovery Neighbor Solicitation (NS) messages.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*ns-interval*

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

## interface/{interface-type}/{interface-name}/ipv6/nd/other-config-flag

In IPv6 Neighbor Discovery, indicates to hosts on a local link that they can use the stateful autoconfiguration feature to obtain configuration settings other than IPv6 address information for their interfaces.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

**other-config-flag**

indicates to hosts on a local link that they can use the stateful autoconfiguration feature to obtain configuration settings other than IPv6 address information for their interfaces

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

Configures which IPv6 prefixes are included in IPv6 Neighbor Discovery Router Advertisement (RA) messages.

### Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/1</name>
    <ipv6>
      <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
        <ipv6-intf-cmds>
          <nd>
            <prefix>
              <prefix-ipv6-address>2001:db8:12d:1300::/64</prefix-ipv6-
address>
              <lifetime>
                <no-advertise></no-advertise>
              </lifetime>
            </prefix>
          </nd>
        </ipv6-intf-cmds>
      </ipv6-nd-ra>
    </ipv6>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*prefix-ipv6-address*

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

**no-advertise**

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

Configures the maximum interval range and minimum interval at which IPv6 Neighbor Discovery Router Advertisement (RA) messages are sent.

### Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/1</name>
    <ipv6>
      <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
        <ipv6-intf-cmds>
          <nd>
            <ra-interval>
              <max-interval>650</max-interval>
              <min>250</min>
            </ra-interval>
          </nd>
        </ipv6-intf-cmds>
      </ipv6-nd-ra>
    </ipv6>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*max-interval*

Specifies the maximum interval range in seconds. The interval can range from 4 through 1800 seconds. The default interval is set from 200 through 600, with messages sent randomly within that interval

*min*

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

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

Configures the amount of time in IPv6 Neighbor Discovery that a router is considered a valid default router.

### Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/1</name>
    <ipv6>
      <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
        <ipv6-intf-cmds>
          <nd>
            <ra-lifetime>2000</ra-lifetime>
          </nd>
        </ipv6-intf-cmds>
      </ipv6-nd-ra>
    </ipv6>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*ra-lifetime*

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

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

Configures the amount of time in IPv6 Neighbor Discovery that a device considers a remote IPv6 node reachable.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*reachable-time*

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

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

Configures the time advertised between IPv6 Neighbor Discovery Neighbor Solicitation (NS) messages.

### Usage

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

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

### Parameters

*name*

Specifies the interface name

*retrans-timer*

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

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

Disables the sending of ICMPv6 Router Advertisement (RA) messages, including those sent in response to a solicitation as well as MTUs.

### Usage

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

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/1</name>
    <ipv6>
      <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
        <ipv6-intf-cmds>
          <nd>
            <suppress-ra>
              <suppress-ra-all></suppress-ra-all>
            </suppress-ra>
          </nd>
        </ipv6-intf-cmds>
      </ipv6-nd-ra>
    </ipv6>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*suppress-ra*

Disables the sending of ICMPv6 Router Advertisement (RA) messages

**all**

Disables the sending of all RA messages, including those sent in response to a solicitation

**mtu**

Disables the sending of MTUs in RA messages



# interface/{interface-type}/{interface-name}/ipv6/ospf/active

Sets a specific OSPFv3 interface to active.

## Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <active></active>
      </interface-ospfv3-conf>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

## Parameters

*name*

Specifies the interface name

**active**

Sets a specific OSPFv3 interface to active

## interface/{interface-type}/{interface-name}/ipv6/ospf/area

Enables OSPFv3 on an interface.

### Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <interface-area>0</interface-area>
      </interface-ospfv3-conf>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*interface-area*

Specifies area address in dotted decimal format or IPv6 address

## interface/{interface-type}/{interface-name}/ipv6/ospf/authentication/ipsec/disable

Disables IP security (IPsec) services on an OSPFv3 interface.

### Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <authentication>
          <ipsec>
            <ipsec-authentication-disable></ipsec-authentication-disable>
          </ipsec>
        </authentication>
      </interface-ospfv3-conf>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**ipsec-authentication-disable**

Disables IP security (IPsec) services on an OSPFv3 interface

## interface/{interface-type}/{interface-name}/ipv6/ospf/authentication/ipsec/key-add-remove-interval

Specifies IPsec as the authentication type for an OSPFv3 interface.

### Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <authentication>
          <ipsec>
            <ifc-key-add-remove-interval>350</ifc-key-add-remove-
interval>
          </ipsec>
        </authentication>
      </interface-ospfv3-conf>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*ifc-key-add-remove-interval*

Specifies the OSPFv3 authentication key add-remove interval. The values can range from 0 through 14400. The default interval is 300

## interface/{interface-type}/{interface-name}/ipv6/ospf/authentication/spi

Specifies the security policy index (SPI) value for an OSPFv3 interface.

### Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <authentication>
          <ipsec-auth-key-config>
            <spi>650</spi>
            <ah>hmac-md5</ah>
            <ah-no-encrypt></ah-no-encrypt>
            <ah-key>abcef12345678901234fedcba098765432109876</ah-key>
          </ipsec-auth-key-config>
        </authentication>
      </interface-ospfv3-conf>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*spi*

Specifies the SPI value. The value can range from 12 through 4294967295

*ah*

Specifies Authentication Header (ah) as the protocol to provide packet-level security

**null**

Specifies that the ESP payload is not encrypted

**hmac-md5**

Enables Hashed Message Authentication Code (HMAC) Message Digest 5 (MD5) authentication on the OSPF interface

**hmac-sha1**

Enables HMAC Secure Hash Algorithm 1 (SHA-1) authentication on the OSPFv3 interface

*ah-no-encrypt*

Specifies the 40-character key is not encrypted upon either its entry or its display

*ah-key*

Specifies the 40 hexadecimal character key

## interface/{interface-type}/{interface-name}/ipv6/ospf/bfd

Enables Bidirectional Forwarding Detection (BFD) on a specific OSPFv3 interface.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <bfd>
          <bfd-enable></bfd-enable>
        </bfd>
      </interface-ospfv3-conf>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*bfd-enable*

Enables BFD on a specific OSPFv3 interface

## interface/{interface-type}/{interface-name}/ipv6/ospf/cost

Configures cost for a specific interface.

### Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <cost>20</cost>
      </interface-ospfv3-conf>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*cost*

Specifies the cost value. The values can range from 1 through 65535. The default value is 1

## interface/{interface-type}/{interface-name}/ipv6/ospf/dead-interval

Specifies the time period for which a neighbor router waits for a hello packet from the device before declaring the router down.

### Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <link-interval-properties>
          <dead-interval>50</dead-interval>
        </link-interval-properties>
      </interface-ospfv3-conf>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*dead-interval*

Specifies the dead interval in seconds. The value can range from 3 through 65535 seconds. The default interval is 40 seconds



# interface/{interface-type}/{interface-name}/ipv6/ospf/hello-interval

Sets the length of time between the transmission of hello packets that an interface sends to neighbor routers.

## Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <link-interval-properties>
          <hello-interval>15</hello-interval>
        </link-interval-properties>
      </interface-ospfv3-conf>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

## Parameters

*name*

Specifies the interface name

*hello-interval*

Specifies the hello interval in seconds. The values can range from 1 through 65535 seconds. The default interval is 10 seconds

## interface/{interface-type}/{interface-name}/ipv6/ospf/hello-jitter

Sets the allowed jitter between HELLO packets.

### Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <link-interval-properties>
          <hello-jitter>20</hello-jitter>
        </link-interval-properties>
      </interface-ospfv3-conf>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*hello-jitter*

Specifies the allowed interval between hello packets. The values can range from 1 through 50 percent (%)

## interface/{interface-type}/{interface-name}/ipv6/ospf/instance

Specifies the number of OSPFv3 instances running on an interface.

### Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <instance>1</instance>
      </interface-ospfv3-conf>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*instance*

Specifies the Instance identification number. The values can range from 0 through 255

## interface/{interface-type}/{interface-name}/ipv6/ospf/mtu-ignore

Enables maximum transmission unit (MTU) match checking.

### Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <mtu-ignore></mtu-ignore>
      </interface-ospfv3-conf>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**mtu-ignore**

Enables maximum transmission unit (MTU) match checking

# interface/{interface-type}/{interface-name}/ipv6/ospf/network

Configures network type.

## Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <network>broadcast</network>
      </interface-ospfv3-conf>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

## Parameters

*name*

Specifies the interface name

*network*

Specifies the network type

**broadcast**

Network type is broadcast, such as Ethernet

**point-to-point**

Network type is point-to-point

## interface/{interface-type}/{interface-name}/ipv6/ospf/passive

Sets a specific OSPFv3 interface to passive.

### Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <passive></passive>
      </interface-ospfv3-conf>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**passive**

Sets a specific OSPFv3 interface to passive

## interface/{interface-type}/{interface-name}/ipv6/ospf/priority

Configures priority for designated router (DR) election and backup designated routers (BDRs) on the interface you are connected to.

### Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <priority>12</priority>
      </interface-ospfv3-conf>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*priority*

Specifies the priority value. The values can range from 0 through 255. The default value is 1

## interface/{interface-type}/{interface-name}/ipv6/ospf/retransmit-interval

Configures retransmit interval. The retransmit interval is the time between Link-State Advertisement (LSA) retransmissions to adjacent routers for a given interface.

### Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <link-interval-properties>
          <retransmit-interval>10</retransmit-interval>
        </link-interval-properties>
      </interface-ospfv3-conf>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*retransmit-interval*

Specifies the retransmit interval in seconds. The values can range from 0 through 3600 seconds. The default value is 5 seconds



# interface/{interface-type}/{interface-name}/ipv6/ospf/suppress-linklsa

Suppresses link LSA advertisements.

## Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <suppress-linklsa></suppress-linklsa>
      </interface-ospfv3-conf>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

## Parameters

*name*

Specifies the interface name

**suppress-linklsa**

Suppresses link LSA advertisements

## interface/{interface-type}/{interface-name}/ipv6/ospf/transmit-delay

Configures transmit delay for link-update packets. The transmit delay is the estimated time required for OSPFv3 to send link-state update packets on the interface to which you are connected.

### Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <link-interval-properties>
          <transmit-delay>20</transmit-delay>
        </link-interval-properties>
      </interface-ospfv3-conf>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*transmit-delay*

Specifies the transmit delay in seconds. The values can range from 0 through 3600 seconds. The default value is 1 second

## interface/{interface-type}/{interface-name}/ipv6/policy

Configures the IPv6 policy route-map.

### Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/50</name>
    <ipv6>
      <policy xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <route-map>
          <ipv6-route-map-name>routemap1</ipv6-route-map-name>
        </route-map>
      </policy>
    </ipv6>
  </fortygigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*ipv6-route-map-name*

Specifies the route-map name

## interface/{interface-type}/{interface-name}/ipv6/raguard

Router protocols are susceptible to rogue Router advertisements (RAs) generated by unauthorized or improperly configured devices.

### Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/3</name>
    <ipv6>
      <raguard>true</raguard>
    </ipv6>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**raguard**

Enables RA Guard

## interface/{interface-type}/{interface-name}/ipv6/vrrp-suppress-interface-ra

Suppresses interface router advertisement (RA) when VRRPv3 is configured on an interface.

### Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <ipv6>
      <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
        <ipv6-intf-cmds>
          <vrrp-suppress-interface-ra></vrrp-suppress-interface-ra>
        </ipv6-intf-cmds>
      </ipv6-nd-ra>
    </ipv6>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*vrrp-suppress-interface-ra*

Suppresses interface router advertisement (RA) when VRRPv3 is configured on an interface

interface/{interface-type}/{interface-name}/lACP/default-up

## interface/{interface-type}/{interface-name}/lACP/default-up

Activates an LACP link in the absence of PDUs.

### Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>7/0/7</name>
    <lACP xmlns="urn:brocade.com:mgmt:brocade-lACP">
      <default-up></default-up>
    </lACP>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**default-up**

Activates an LACP link in the absence of PDUs

## interface/{interface-type}/{interface-name}/lACP/port-priority

Sets the priority of the physical interface for LACP.

### Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns=""urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>7/0/7</name>
    <lacp xmlns=""urn:brocade.com:mgmt:brocade-lacp">
      <std_port-priority>2000</std_port-priority>
    </lacp>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*std\_port-priority*

Specifies the priority. The value can range from 1 through 65535. A lower number takes priority over a higher number

## interface/{interface-type}/{interface-name}/lACP/timeout

Configures the timeout value used by the Link Aggregation Control Protocol (LACP) to exchange packets on an interface before invalidating a received data unit (DU).

### Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/1</name>
    <lACP xmlns="urn:brocade.com:mgmt:brocade-lACP">
      <timeout>short</timeout>
    </lACP>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*timeout*

Specifies the timeout value

**long**

Specifies that a long-timeout value of 30 seconds will be used

**short**

Specifies that a short-timeout value of one second will be used



## interface/{interface-type}/{interface-name}/lldp/dcbx-version

Specifies which version of the Data Center Bridging Exchange (DCBX) protocol to use.

### Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
      <dcbx-version>cee</dcbx-version>
    </lldp>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*dcbx-version*

Specifies the version

**auto**

Auto-adjusts the DCBX protocol version. This is the default setting

**cee**

Uses the Converged Enhanced Ethernet (CEE) DCBX version.

## interface/{interface-type}/{interface-name}/lldp/disable

Disables the Link Layer Discovery Protocol (LLDP) on the interface.

### Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
      <disable></disable>
    </lldp>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**disable**

Disables the Link Layer Discovery Protocol (LLDP) on the interface

## interface/{interface-type}/{interface-name}/lldp/profile

Applies a Link Layer Discovery Protocol (LLDP) profile to an interface

### Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
      <profile>profile1</profile>
    </lldp>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*profile*

Specifies the profile name

## interface/{interface-type}/{interface-name}/lldp/iscsi-priority

Configures the priority that will be advertised in the DCBX iSCSI TLV for a specified interface.

### Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
      <iscsi-priority>3</iscsi-priority>
    </lldp>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*iscsi-priority*

Specifies the priority value. The value can range from 0 through 7

## interface/{interface-type}/{interface-name}/long-distance-isl

Extends an ISL link up to 30 km.

### Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <long-distance-isl>5000</long-distance-isl>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*long-distance-isl*

Specifies the distance link

**2000**

Specifies a 2 km distant link

**5000**

Specifies a 5 km distant link

**10000**

Specifies a 10 km distant link

**30000**

Specifies a 30 km distant link. DCB/FCoE capabilities are not supported with this setting

## interface/{interface-type}/{interface-name}/mac/access-group

Applies rules specified in a MAC access control list (ACL) to traffic entering or exiting an interface.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <mac xmlns="urn:brocade.com:mgmt:brocade-mac-access-list">
      <access-group>
        <mac-access-list>test_02</mac-access-list>
        <mac-direction>in</mac-direction>
      </access-group>
    </mac>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*mac-access-list*

Specifies the name of the standard or extended MAC access list

*mac-direction*

Specifies the direction

**in**

Specifies to filter inbound packets only

**out**

Specifies to filter outbound packets only

## interface/{interface-type}/{interface-name}/mac-learning/disable/vlan/add

Adds a VLAN or range of VLANs to the list of VLANs for which dynamic MAC address learning is disabled.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface>
  <fortygigabitethernet>
    <name>1/2/2</name>
    <mac-learning>
      <mac-learn-disable>
        <vlan>
          <mac-learning-vlan-add>1000</mac-learning-vlan-add>
        </vlan>
      </mac-learn-disable>
    </mac-learning>
  </fortygigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*mac-learning-vlan-add*

Adds a VLAN or range of VLANs to the list of VLANs for which dynamic MAC address learning is disabled

## interface/{interface-type}/{interface-name}/mac-learning/disable/vlan/remove

Removes a VLAN or range of VLANs to the list of VLANs for which dynamic MAC address learning is disabled.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface>
  <fortygigabitethernet>
    <name>1/2/2</name>
    <mac-learning>
      <mac-learn-disable>
        <vlan>
          <mac-learning-vlan-remove>100</mac-learning-vlan-remove>
        </vlan>
      </mac-learn-disable>
    </mac-learning>
  </fortygigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*mac-learning-vlan-remove*

Removes a VLAN or range of VLANs to the list of VLANs for which dynamic MAC address learning is disabled



## interface/{interface-type}/{interface-name}/mtu

Configures the size of the maximum transmission unit (MTU) on an interface.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <mtu>3000</mtu>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*mtu*

Specifies the size of the MTU. The value can range from 1522 through 9216

## interface/{interface-type}/{interface-name}/openflow/enable

Enables the OpenFlow mode on an interface.

### Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <openflow-interface-cfg xmlns="urn:brocade.com:mgmt:brocade-openflow">
      <openflow-enable>
        <enable></enable>
      </openflow-enable>
    </openflow-interface-cfg>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**enable**

Enables the OpenFlow mode on an interface

# interface/{interface-type}/{interface-name}/openflow/logical-instance

Creates an OpenFlow logical instance, enables a variety of options under OpenFlow logical-instance configuration mode, and also associates the logical instance with an interface.

## Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <openflow-interface-cfg xmlns="urn:brocade.com:mgmt:brocade-openflow">
      <logical-instance-id>1</logical-instance-id>
    </openflow-interface-cfg>
  </tengigabitethernet>
</interface>
```

## Parameters

*name*

Specifies the interface name

*logical-instance-id*

Specifies the logical instance number

## interface/{interface-type}/{interface-name}/port-profile-port

Activates the Automatic Migration of Port Profiles (AMPP) port-profile configuration mode on a port.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <port-profile-to-interface-associations xmlns="urn:brocade.com:mgmt:brocade-
port-profile">
      <port-profile-port>
        <port-to-port-profile-domain-association>
          <profile-domain-name>domain1</profile-domain-name>
        </port-to-port-profile-domain-association>
      </port-profile-port>
    </port-profile-to-interface-associations>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*profile-domain-name*

Specifies the port-profile domain name

## interface/{interface-type}/{interface-name}/port-profile-port/restrict-flooding

Restricts the flooding of egress BUM traffic from an AMPP port-profile port.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/1</name>
    <port-profile-port>
      <restrict-flooding-container>
        <restrict-flooding></restrict-flooding>
      </restrict-flooding-container>
    </port-profile-port>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**restrict-flooding**

Restricts the flooding of egress BUM traffic from an AMPP port-profile port

## interface/{interface-type}/{interface-name}/priority-tag

Toggles the priority-tagging support on a specific interface.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/2</name>
    <priority-tag-enable xmlns="urn:brocade.com:mgmt:brocade-qos"></priority-tag-
enable>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*priority-tag-enable*

Enables priority-tagging support

## interface/{interface-type}/{interface-name}/qos/cos

Configures the interface Class of Service (CoS) value.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
      <default-cos>3</default-cos>
    </qos>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*default-cos*

Specifies the CoS value. The value can range from 0 through 7

## interface/{interface-type}/{interface-name}/qos/cos-mutation

Applies a CoS-to-CoS mutation quality of Service (QoS) map on an interface

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
      <cos-mutation>map1</cos-mutation>
    </qos>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*cos-mutation*

Specifies the name of the CoS mutation map



## interface/{interface-type}/{interface-name}/qos/drop-monitor/enable

Enables RASlog messages for various types of dropped data under QoS.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
      <drop-monitor>
        <drop-monitor-enable></drop-monitor-enable>
      </drop-monitor>
    </qos>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*drop-monitor-enable*

Enables RASlog messages for various types of dropped data under QoS

## interface/{interface-type}/{interface-name}/qos/dscp-cos

Applies a defined DSCP-CoS map to an interface

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/2</name>
    <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
      <dscp-cos>test</dscp-cos>
    </qos>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*dscp-cos*

Specifies the name of the DSCP-to-COS mutation map

## interface/{interface-type}/{interface-name}/qos/dscp-mutation

Applies a defined DSCP mutation map to an interface.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
      <dscp-mutation>map4</dscp-mutation>
    </qos>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*dscp-mutation*

Specifies the name of DSCP mutation map

## interface/{interface-type}/{interface-name}/qos/dscp-traffic-class

Applies a defined DSCP-to-Traffic-Class map to an interface.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/2</name>
    <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
      <dscp-traffic-class>test</dscp-traffic-class>
    </qos>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*dscp-traffic-class*

Specifies the name of the DSCP-to-Traffic-Class map

# interface/{interface-type}/{interface-name}/qos/flowcontrol

Activates and configures QoS flow control.

## Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
      <flowcontrol>
        <link-level-flowcontrol>
          <flowcontrol-tx>on</flowcontrol-tx>
          <flowcontrol-rx>on</flowcontrol-rx>
        </link-level-flowcontrol>
      </flowcontrol>
    </qos>
  </tengigabitethernet>
</interface>
```

## Parameters

*name*

Specifies the interface name

*flowcontrol-tx*

Activates or deactivates the transmission portion of flow control

**on**

Activates the transmission portion of flow control

**off**

Deactivates the transmission portion of flow control

*flowcontrol-rx*

Activates or deactivates the receiving portion of flow control

**on**

Activates the receiving portion of flow control

**off**

Deactivates the receiving portion of flow control

## interface/{interface-type}/{interface-name}/qos/random-detect/ traffic-class/{traffic-class-value}/red-profile-id

Maps a Random Early Discard (RED) profile to a CoS priority value for a port.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
      <random-detect>
        <traffic-class>
          <red-tc-value>3</red-tc-value>
          <red-profile-id>2</red-profile-id>
        </traffic-class>
      </random-detect>
    </qos>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*red-tc-value*

Specifies the Class of Service (COS) value. The value can range from 0 through 7

*red-profile-id*

Specifies the Random Error Detection value. The value can range from 1 through 384

# interface/{interface-type}/{interface-name}/rmon/collection/history

Collects Ethernet group statistics for later retrieval

## Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <rmon xmlns="urn:brocade.com:mgmt:brocade-rmon">
      <collection>
        <history-control-entry>
          <history-control-index>25</history-control-index>
          <history-control-buckets-requested>10</history-control-buckets-
requested>
          <history-control-interval>2000</history-control-interval>
          <history-control-owner>admin</history-control-owner>
        </history-control-entry>
      </collection>
    </rmon>
  </tengigabitethernet>
</interface>
```

## Parameters

### *name*

Specifies the interface name

### *history-control-index*

Specifies the RMON collection control index value. The value can range from 1 through 65535.

### *history-control-buckets-requested*

Specifies the maximum number of buckets for the RMON collection history. The value can range from 1 through 65535

### *history-control-interval*

Specifies the alarm sample interval in seconds. The value can range from 1 through 3600. The default value is 1800

### *history-control-owner*

Specifies the identity of the owner. The maximum number of characters is 15

## interface/{interface-type}/{interface-name}/rmon/collection/stats

Collects Ethernet group statistics on a specific interface.

### Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <rmon xmlns="urn:brocade.com:mgmt:brocade-rmon">
      <collection>
        <ether-stats-entry>
          <ether-stats-index>3</ether-stats-index>
          <ether-stats-owner>owner1</ether-stats-owner>
        </ether-stats-entry>
      </collection>
    </rmon>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*ether-stats-index*

Specifies the RMON collection control index value. The value can range from 1 through 65535

*ether-stats-owner*

Specifies the identity of the owner



## interface/{interface-type}/{interface-name}/service-policy

Binds a policy-map to an interface.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <fortygigabitethernet>
    <name>1/0/49</name>
    <service-policy xmlns="urn:brocade.com:mgmt:brocade-policer">
      <out>pmap1</out>
    </service-policy>
  </fortygigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*out*

Binds policy-map to outbound traffic. Specifies the name of the policy-map

interface/{interface-type}/{interface-name}/sflow/enable

## interface/{interface-type}/{interface-name}/sflow/enable

Enables sFlow on an interface.

### Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <sflow xmlns="urn:brocade.com:mgmt:brocade-sflow">
      <enable></enable>
    </sflow>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**enable**

Enables sFlow on the interface

## interface/{interface-type}/{interface-name}/sflow/polling-interval

Configures the polling interval globally.

### Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <sflow xmlns="urn:brocade.com:mgmt:brocade-sflow">
      <polling-interval>25</polling-interval>
    </sflow>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*polling-interval*

Specifies the polling interval in seconds. The value can range from 1 through 65535 seconds

## interface/{interface-type}/{interface-name}/sflow/sample-rate

Sets the default sampling rate for an interface.

### Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <sflow xmlns="urn:brocade.com:mgmt:brocade-sflow">
      <sample-rate>33300</sample-rate>
    </sflow>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*sample-rate*

Specifies the sampling rate. The value can range from 2 through 16777215 packets

## interface/{interface-type}/{interface-name}/shutdown

Disables the selected interface.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <shutdown></shutdown>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**shutdown**

Disables the interface

## interface/{interface-type}/{interface-name}/snmp/trap/link-status

Enables SNMP traps.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <snmp>
      <trap>
        <link-snmp-trap-status></link-snmp-trap-status>
      </trap>
    </snmp>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*link-snmp-trap-status*

Enables SNMP traps

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

# interface/{interface-type}/{interface-name}/spanning-tree/ autoedge

Enables automatic edge detection.

## Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <autoedge></autoedge>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

## Parameters

*name*

Specifies the interface name

**autoedge**

Enables automatic edge detection

## interface/{interface-type}/{interface-name}/spanning-tree/bpdu-mac

Sets the MAC address of the Bridge Protocol Data Unit (BPDU).

### Usage

Supported interface types are: Port-channel, Management, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <bpdu-mac>0304.0800.0700</bpdu-mac>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*bpdu-mac*

Specifies the MAC address of the Bridge Protocol Data Unit

**0100.0ccc.cccd**

Cisco Control Mac

**0304.0800.0700**

Brocade Control Mac



## interface/{interface-type}/{interface-name}/spanning-tree/cost

Changes an interface's spanning-tree port path cost.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <cost>10000</cost>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*cost*

Specifies the path cost for the Spanning Tree Protocol (STP) calculations. The value can range from 1 through 200000000

## interface/{interface-type}/{interface-name}/spanning-tree/edgeport

Enables the edge port on an interface to allow the interface to quickly transition to the forwarding state.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <edgeport>
        <edgeportbasic></edgeportbasic>
      </edgeport>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*edgeportbasic*

Enables the edge port on an interface

## interface/{interface-type}/{interface-name}/spanning-tree/edgeport/bpdu-filter

Sets the edge port Bridge Protocol Data Unit (BPDU) filter for the port.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <edgeport>
        <bpdu-filter></bpdu-filter>
      </edgeport>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**bpdu-filter**

Sets the edge port Bridge Protocol Data Unit (BPDU) filter for the port

## interface/{interface-type}/{interface-name}/spanning-tree/edgeport/bpdu-guard

Guards the port against the reception of BPDUs.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <edgeport>
        <bpdu-guard></bpdu-guard>
      </edgeport>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**bpdu-guard**

Guards the port against the reception of BPDUs

## interface/{interface-type}/{interface-name}/spanning-tree/guard/ root

Enables the guard root to restrict which interface is allowed to be the spanning-tree root port or the path-to-the-root for the switch.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <guard>
        <root></root>
      </guard>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

|             |                              |
|-------------|------------------------------|
| <i>name</i> | Specifies the interface name |
| <b>root</b> | Enables the guard root       |

## interface/{interface-type}/{interface-name}/spanning-tree/hello-time

Configures the hello-time in seconds on the interface.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <hello-time>5</hello-time>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*hello-time*

Sets the interval between the hello Bridge Protocol Data Units (BPDUs) sent by the root switch configuration messages. The value can range from 1 through 10.

## interface/{interface-type}/{interface-name}/spanning-tree/ instance/priority

Sets restrictions for the port of particular MSTP instances.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <instance>
        <id>5</id>
        <priority>240</priority>
      </instance>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*id*

Specifies the MSTP instance. The value can range from 1 through 32

*priority*

Specifies the port priority for a bridge in increments of 16. The value can range from 0 through 240

## interface/{interface-type}/{interface-name}/spanning-tree/ instance/cost

Configures the path-cost for a port.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <instance>
        <id>5</id>
        <cost>60</cost>
      </instance>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*id*

Specifies the MSTP instance. The value can range from 1 through 32

*cost*

Specifies the path-cost for a port. The value can range from 1 through 20000000



## interface/{interface-type}/{interface-name}/spanning-tree/ instance/restricted-role

Specifies to restrict the role of a port.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <instance>
        <id>5</id>
        <restricted-role></restricted-role>
      </instance>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*id*

Specifies the MSTP instance. The value can range from 1 through 32

**restricted-role**

Specifies to restrict the role of a port

## interface/{interface-type}/{interface-name}/spanning-tree/ instance/restricted-tcn

Specifies to restrict the propagation of the topology change notifications from a port.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <instance>
        <id>5</id>
        <restricted-tcn></restricted-tcn>
      </instance>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*id*

Specifies the MSTP instance. The value can range from 1 through 32

**restricted-tcn**

Specifies to restrict the propagation of the topology change notifications from a port

## interface/{interface-type}/{interface-name}/spanning-tree/link-type

Enables and disables the rapid transition for the Spanning Tree Protocol (STP).

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <link-type>shared</link-type>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*link-type*

Enables and disables the rapid transition

#### **point-to-point**

Enables rapid transition

#### **shared**

Disables rapid transition

## interface/{interface-type}/{interface-name}/spanning-tree/peer-switch

When the Peer-Switch feature is enabled on a Cisco vPC domain, it broadcasts the same BPDUs from both vPC primary and secondary nodes to peer devices. But a VCS on a VLAG assumes that any logical interface receives only one BPDU from any of its member ports, so when it receives the two BPDUs from a Cisco vPC domain it creates a churn of VLAG mastership, and this increases the CPU load on a Brocade VDX. To avoid these problem, BPDUs received on the VLAG non-master are dropped. When the Peer-Switch functionality is enabled and the the VLAG Master is selected, BPDUs received on VLAG Non-Master are dropped unless there is a change in the status of the VLAG Master.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <peer-switch></peer-switch>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**peer-switch**

Enables the Peer-Switch functionality on a portchannel

## interface/{interface-type}/{interface-name}/spanning-tree/portfast

Enables the Port Fast feature on an interface to allow the interface to quickly transition to forwarding state.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <portfast>
        <portfastbasic></portfastbasic>
      </portfast>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

## interface/{interface-type}/{interface-name}/spanning-tree/ portfast/bpdu-filter

Sets the Port Fast BPDU filter for the port.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <portfast>
        <bpdu-filter></bpdu-filter>
      </portfast>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**bpdu-filter**

Sets the Port Fast BPDU filter for the port

## interface/{interface-type}/{interface-name}/spanning-tree/portfast/bpdu-guard

Guards the port against the reception of BPDUs.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <portfast>
        <bpdu-guard></bpdu-guard>
      </portfast>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**bpdu-guard**

Guards the port against the reception of BPDUs

## interface/{interface-type}/{interface-name}/spanning-tree/priority

Changes an interface's spanning-tree port priority.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <priority>32</priority>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*priority*

Specifies the interface priority for the spanning tree. The value can range from 0 through 240. Port priority is in increments of 16



## interface/{interface-type}/{interface-name}/spanning-tree/restricted-role

Restricts the role of the port from becoming a root port.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <restricted-role></restricted-role>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**restricted-role**

Restricts the role of the port from becoming a root port

## interface/{interface-type}/{interface-name}/spanning-tree/restricted-tcn

Restricts the Topology Change Notification (TCN) Bridge Protocol Data Units (BPDUs) sent on the port.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <restricted-tcn></restricted-tcn>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**restricted-tcn**

Restricts the Topology Change Notification

# interface/{interface-type}/{interface-name}/spanning-tree/ shutdown

Disables spanning tree on the interface.

## Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <shutdown></shutdown>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

## Parameters

*name*

Specifies the interface name

**shutdown**

Disables spanning tree on the interface

## interface/{interface-type}/{interface-name}/spanning-tree/vlan

Configures the VLAN identifier for the spanning tree interface.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
      <vlan>
        <id>200</id>
        <cost>10000</cost>
      </vlan>
    </spanning-tree>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*id*

Specifies the VLAN identifier for the spanning tree interface

*cost*

## interface/{interface-type}/{interface-name}/speed

Sets the speed negotiation value on an Ethernet interface.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, TenGigabitEthernet and VLAN.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <speed>10000</speed>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*speed*

Specifies the speed value

**100**

Forces the speed to 100 Mbps

**1000**

Forces the speed to 1 Gbps

**1000-auto**

Forces the speed to 1 Gbps AN (802.3 Clause 37 Auto-Negotiation)

**10000**

Forces the speed to 10 Gbps

**auto**

Allows the interface to negotiate the speed setting

## interface/{interface-type}/{interface-name}/storm-control/ingress

Limits ingress traffic on a specified interface.

### Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet, and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <storm-control xmlns="urn:brocade.com:mgmt:brocade-bum-storm-control">
      <ingress>
        <protocol-type>broadcast</protocol-type>
        <rate-format>limit-bps</rate-format>
        <rate-bps>100</rate-bps>
        <rate-percent>458632240</rate-percent>
        <bum-action>monitor</bum-action>
      </ingress>
    </storm-control>
  </tengigabitethernet>
</interface>
```

### Parameters

#### *name*

Specifies the interface name

#### *protocol-type*

Specifies the protocol type

##### **broadcast**

Specifies that the command will operate on broadcast traffic only

##### **unknown-unicast**

Specifies that the command will operate on unknown-unicast traffic only

##### **multicast**

Specifies that the command will operate on multicast traffic only

#### *rate-format*

Specifies the rate format

##### **limit-bps**

Specifies that the value given to the rate parameter is in bits per second

##### **limit-percent**

Specifies that the value given to the rate parameter is in percentage of capacity of the interface

#### *rate-bps*

Specifies the amount of traffic allowed, either in bits per second or a percentage of the capacity of the interface, depending on which parameter was chosen with the rate

#### **monitor**

Specifies that, if a rate limit is reached within a five-second sampling period, a log message gets sent

#### **shutdown**

Specifies that, if a rate limit is exceeded within a five-second sampling period, the interface will be shut down

## interface/{interface-type}/{interface-name}/switchport

Puts the interface in Layer 2 mode and sets the switching characteristics of the Layer 2 interface.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <switchport></switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**switchport**

Enables switching characteristics of the Layer 2 interface

## interface/{interface-type}/{interface-name}/switchport/access

Sets the Layer 2 interface as access.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/1</name>
    <switchport>
      <access>
        <accessvlan>20</accessvlan>
      </access>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*accessvlan*

Specifies the VLAN ID



## interface/{interface-type}/{interface-name}/switchport/mode

Sets the mode of the Layer 2 interface.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/2</name>
    <switchport>
      <mode>
        <vlan-mode>trunk-no-default-native</vlan-mode>
      </mode>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

#### *name*

Specifies the interface name

#### *vlan-mode*

Sets the mode

##### *access*

Sets the Layer 2 interface as access. Access mode assigns the port to a VLAN

##### *trunk*

Sets the Layer 2 interface as trunk. Trunk mode makes the port linkable to other switches and routers

## interface/{interface-type}/{interface-name}/switchport/mode/private-vlan

Sets the private VLAN (PVLAN) mode of the Layer 2 interface.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/2</name>
    <switchport>
      <mode>
        <pvlan>trunk</pvlan>
      </mode>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*pvlan*

Sets the private VLAN mode

**host**

Sets the port mode to host (community or isolated) mode. It accepts the untagged or priority tagged packet, and the outgoing packet is untagged

**promiscuous**

Sets the port mode to promiscuous mode

**trunk**

Sets the port mode to PVLAN trunk port. This port can carry multiple VLANs. The outgoing packets carry all VLANs, except for native VLANs

**trunk host**

Sets the port mode to host (community or isolated) mode. The trunk operand means the outgoing packet will be tagged "accept"

**trunk promiscuous**

Sets the trunk to promiscuous mode

## interface/{interface-type}/{interface-name}/switchport/mode/trunk-no-default-native

Configures a port to trunk mode without the implicit creation of default native VLAN 1 in a Virtual Fabrics context.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/2</name>
    <switchport>
      <mode>
        <trunk-no-default-native></trunk-no-default-native>
      </mode>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**trunk-no-default-native**

Enables a port to trunk mode

## interface/{interface-type}/{interface-name}/switchport/port-security

Enables port security on an interface port.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/2</name>
    <switchport>
      <port-security></port-security>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**port-security**

Enables port security

## interface/{interface-type}/{interface-name}/switchport/port-security/mac-address

Configures the MAC address option for port security on an interface port.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/2</name>
    <switchport>
      <port-security>
        <port-secutiry-mac-address>
          <mac-address>1122.2233.3322</mac-address>
          <port-sec-vlan>1</port-sec-vlan>
        </port-secutiry-mac-address>
      </port-security>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*mac-address*

Specifies the MAC address-based VLAN classifier rule used to map to a specific VLAN

*port-sec-vlan*

Specifies a VLAN

## interface/{interface-type}/{interface-name}/switchport/port-security/max

Configures the maximum number of MAC addresses used for port security on an interface port.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/2</name>
    <switchport>
      <port-security>
        <port-sec-max>12</port-sec-max>
      </port-security>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*port-sec-max*

Specifies the maximum number of secure MAC addresses. The value can range is from 1 through 8192

## interface/{interface-type}/{interface-name}/switchport/port-security/oui

Configures an Organizationally Unique Identifier (OUI) MAC address for port security on an interface port. All other addresses are ignored.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/2</name>
    <switchport>
      <port-security>
        <oui>1122.2233.3322</oui>
      </port-security>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*oui*

Specifies the OUI MAC address from which to accept vendor traffic, in the format  
xxxx.xxxx.xxxx

## interface/{interface-type}/{interface-name}/switchport/port-security/shutdown-time

Configures the shutdown-time option for port security on an interface port.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/2</name>
    <switchport>
      <port-security>
        <shutdown-time>15</shutdown-time>
      </port-security>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*shutdown-time*

Specifies the amount of time to shut down the interface port, in minutes. The value can range from 1 through 15



## interface/{interface-type}/{interface-name}/switchport/port-security/sticky

Converts dynamic MAC addresses to sticky secure MAC addresses.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/2</name>
    <switchport>
      <port-security>
        <sticky>
          <sticky-flag></sticky-flag>
          <port-secutiry-mac-address>
            <mac-address>1122.2255.5544</mac-address>
            <port-sec-vlan>100</port-sec-vlan>
          </port-secutiry-mac-address>
        </sticky>
      </port-security>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*mac-address*

Specifies the MAC address-based VLAN classifier rule used to map to a specific VLAN

*port-sec-vlan*

Specifies a VLAN ID

## interface/{interface-type}/{interface-name}/switchport/port-security/violation

Configures the violation response options for port security on an interface.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/2</name>
    <switchport>
      <port-security>
        <port-sec-violation>restrict</port-sec-violation>
      </port-security>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*port-sec-violation*

Specifies the violation response

**restrict**

Drops packets with unknown source addresses until you remove a sufficient number of secure MAC addresses to drop below the maximum value

**shutdown**

Puts the interface into the error-disabled state for a predetermined amount of time

## interface/{interface-type}/{interface-name}/switchport/private-vlan/association/trunk

Assigns a primary private VLAN to private VLAN trunk port.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/1</name>
    <switchport>
      <private-vlan>
        <association>
          <trunk>
            <primary_vlan_ID>1</primary_vlan_ID>
            <secondary_vlan_ID>208</secondary_vlan_ID>
          </trunk>
        </association>
      </private-vlan>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*primary\_vlan\_ID*

Specifies the primary VLAN identification

*secondary\_vlan\_ID*

Specifies the secondary VLAN identification

## interface/{interface-type}/{interface-name}/switchport/private-vlan/host-association

Assigns a secondary and primary VLAN pair to host port.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/1</name>
    <switchport>
      <private-vlan>
        <host-association>
          <primary_vlan_ID>100</primary_vlan_ID>
          <secondary_vlan_ID>210</secondary_vlan_ID>
        </host-association>
      </private-vlan>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*primary\_vlan\_ID*

Specifies the primary VLAN identification

*secondary\_vlan\_ID*

Specifies the secondary VLAN identification

## interface/{interface-type}/{interface-name}/switchport/private-vlan/mapping

Maps primary VLAN and secondary VLAN to a promiscuous port.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/1</name>
    <switchport>
      <private-vlan>
        <mapping>
          <promis-pri-pvlan>5000</promis-pri-pvlan>
          <oper>add</oper>
          <promis-sec-pvlan-range>6000,7000</promis-sec-pvlan-range>
        </mapping>
      </private-vlan>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*promis-pri-pvlan*

Specifies the primary VLAN identification

*oper*

Specifies the operation

**add**

Adds the secondary VLAN to the primary mapping

**remove**

Removes the secondary VLAN from the primary mapping

*promis-sec-pvlan-range*

Specifies the secondary VLAN identification

## interface/{interface-type}/{interface-name}/switchport/private-vlan/trunk/allowed/vlan

Adds a VLAN to a private VLAN (PVLAN) trunk port.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>2/2/21</name>
    <switchport>
      <private-vlan>
        <trunk>
          <pvlan-tag>
            <pvlan-tag-native-vlan></pvlan-tag-native-vlan>
          </pvlan-tag>
          <allowed>
            <vlan>
              <pvlan_all></pvlan_all>
            </vlan>
          </allowed>
        </trunk>
      </private-vlan>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

#### *name*

Specifies the interface name

#### *vlan*

Adds a VLAN to a private VLAN

#### **all**

Allows all VLANs

#### *none*

Removes all VLANs except for VLAN 1

#### *add*

Adds a specified VLAN

#### **remove**

Removes the specified VLAN

#### **except**

Allows all VLANs except the specified VLAN

#### **ctag** *ctag*

Specifies an incoming C-TAG that is associated with a service or transport VF in a Virtual Fabrics context

## interface/{interface-type}/{interface-name}/switchport/private-vlan/trunk/native-vlan

Sets native private VLAN (PVLAN) characteristics of the Layer 2 trunk interface for classifying untagged traffic.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/1</name>
    <switchport>
      <private-vlan>
        <trunk>
          <native-vlan>120</native-vlan>
        </trunk>
      </private-vlan>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*native-vlan*

Specifies a VLAN to transmit and receive through the Layer 2 interface

## interface/{interface-type}/{interface-name}/switchport/trunk/allowed/vlan/rspan-vlan

Adds or removes VLANs on a Layer 2 interface in trunk mode.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns=""urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>2/2/21</name>
    <switchport>
      <trunk>
        <allowed>
          <vlan>
            <rspan-vlan>110</rspan-vlan>
          </vlan>
        </allowed>
      </trunk>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*rspan-vlan*

Selects a VLAN for Remote Switched Port Analyzer (RSPAN) traffic monitoring



## interface/{interface-type}/{interface-name}/switchport/trunk/native-vlan

Sets native VLAN characteristics as an 802.1Q VLAN, or, in a Virtual Fabrics context, as service or transport VF on a trunk port, matching tagged or untagged data traffic that does not match a classification rule.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <name>1/0/1</name>
    <switchport>
      <trunk>
        <native-vlan-classification>
          <native-vlan-id>300</native-vlan-id>
        </native-vlan-classification>
      </trunk>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*native-vlan-id*

Adds a VLAN to transmit and receive through the Layer 2 interface

## interface/{interface-type}/{interface-name}/switchport/trunk/native-vlan-untagged

Configures a port to accept only untagged packets, and specifies that those packets be egress untagged in a Virtual Fabrics context. The untagged packets may be classified to an 802.1Q VLAN, a service VF, or a transport VF.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <name>1/0/1</name>
    <switchport>
      <trunk>
        <native-vlan-untagged-config>
          <native-vlan-id-untagged>5001</native-vlan-id-untagged>
        </native-vlan-untagged-config>
      </trunk>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*native-vlan-id-untagged*

Adds a classified VLAN (VLAN ID > 4095) to transmit and receive through the Layer 2 interface

# interface/{interface-type}/{interface-name}/switchport/trunk/native-vlan-xtagged

Configures a port to accept both tagged and untagged packets, and specifies the egress tagging behavior in a Virtual Fabrics context.

## Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <name>1/0/1</name>
    <switchport>
      <trunk>
        <native-vlan-xtagged-config>
          <native-vlan-id-xtagged>5000</native-vlan-id-xtagged>
          <native-vlan-ctag-id-xtagged>50</native-vlan-ctag-id-xtagged>
          <native-vlan-egress-type-xtagged>tagged</native-vlan-egress-type-
xtagged>
        </native-vlan-xtagged-config>
      </trunk>
    </switchport>
  </tengigabitethernet>
</interface>
```

## Parameters

### *name*

Specifies the interface name

### *native-vlan-id-xtagged*

Adds a classified VLAN (VLAN ID > 4095) to transmit and receive through the Layer 2 interface

### *native-vlan-ctag-id-xtagged*

Sets an optional C-TAG (802.1Q VLAN ID) for a service or transport VF (VLAN ID > 4095)

### *native-vlan-egress-type-xtagged*

Enables the selection of required tagging options

#### **tagged**

Specifies packets as tagged

#### **untagged**

Specifies packets as untagged

#### **any**

Specifies that packets preserve their ingress encapsulation

## interface/{interface-type}/{interface-name}/switchport/trunk/tag/native-vlan

Enables tagging on native VLAN traffic.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/1</name>
    <switchport>
      <trunk>
        <tag>
          <native-vlan></native-vlan>
        </tag>
      </trunk>
    </switchport>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**native-vlan**

Enables tagging on native VLAN traffic

## interface/{interface-type}/{interface-name}/track/enable

Enables link-state tracking (LST).

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <track>
      <track_enable></track_enable>
    </track>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*track\_enable*

Enables link-state tracking

## interface/{interface-type}/{interface-name}/track/interface

Configures link-state tracking (LST) for an interface.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <track>
      <interface>
        <track-interface-type>ethernet</track-interface-type>
        <track-interface-name>1/0/11</track-interface-name>
      </interface>
    </track>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*track-interface-type*

Specifies a physical interface type

*track-interface-name*

Specifies the physical interface name in the format rbridge-id/slot/port

## interface/{interface-type}/{interface-name}/track/min-link

Specifies the minimum number of available uplinks below which LST shuts down the downlinks.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <track>
      <min-link>1</min-link>
    </track>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*min-link*

Specifies the minimum number of available uplinks below which LST shuts down the downlinks. The value can range from 1 through 24

## interface/{interface-type}/{interface-name}/tunable-optics

Assigns channels to tunable optic interfaces (T-SFP+) for specific wavelengths.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <tunable-optics>
      <sfpp>
        <channel>5</channel>
      </sfpp>
    </tunable-optics>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*channel*

Specifies the channel number

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |



## interface/{interface-type}/{interface-name}/tunnel

Activates IEEE BPDU packets.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <tunnel xmlns=""urn:brocade.com:mgmt:brocade-xstp">
      <tagged-ieee-bpdu></tagged-ieee-bpdu>
    </tunnel>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

**tagged-ieee-bpdu**

Activates IEEE BPDU packets

interface/{interface-type}/{interface-name}/udld/enable

## interface/{interface-type}/{interface-name}/udld/enable

Enables the Unidirectional Link Detection (UDLD) protocol on an interface.

### Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <udld xmlns="urn:brocade.com:mgmt:brocade-udld">
      <udld-enable></udld-enable>
    </udld>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*udld-enable*

## interface/{interface-type}/{interface-name}/vlan/classifier/activate/group

Activates a VLAN classifier group.

### Usage

Supported interface types are: Port-channel, FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>22/0/10</name>
    <vlan xmlns="urn:brocade.com:mgmt:brocade-vlan">
      <classifier>
        <activate>
          <group>
            <groupid>1</groupid>
            <vlan-name>vlan</vlan-name>
            <vlan>2</vlan>
          </group>
        </activate>
      </classifier>
    </vlan>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*groupid*

Specifies which VLAN classifier group to activate. The value can range from 1 through 16

*vlan*

Specifies the VLAN interface to activate

## interface/{interface-type}/{interface-name}/vrf/forwarding

Configures any port as a VRF port.

### Usage

Supported interface types are: FortyGigabitEthernet, GigabitEthernet, HundredGigabitEthernet and TenGigabitEthernet.

```
<interface xmlns="urn:brocade.com:mgmt:brocade-interface">
  <tengigabitethernet>
    <name>1/0/5</name>
    <vrf>
      <forwarding>vrf1</forwarding>
    </vrf>
  </tengigabitethernet>
</interface>
```

### Parameters

*name*

Specifies the interface name

*forwarding*

Specifies the name of the VRF option for the port

# interface/ve

Configures a virtual Ethernet (VE) interface.

## Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <interface>  
    <ve>  
      <gve-name>10</gve-name>  
    </ve>  
  </interface>  
</interface-vlan>
```

## Parameters

*gve-name*

Specifies the corresponding VLAN interface

## interface/ve/{vlan-id}/attach/rbridge-id

Assigns a range of RBridge IDs to the global VE interface.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <ve>
      <gve-name>10</gve-name>
      <attach xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
        <rbridge-id>
          <rb-add>1-2</rb-add>
        </rbridge-id>
      </attach>
    </ve>
  </interface>
</interface-vlan>
```

### Parameters

*gve-name*

Specifies the corresponding VLAN interface

*rb-add*

Specifies a range of RBridge IDs to attach to the VE interface, up to a maximum of four RBridge IDs. (You can also specify a single RBridge ID.) Ranges can be specified by hyphens, separated by commas, or contain a mixture of both

## interface/ve/{vlan-id}/ip/fabric-virtual-gateway

Enables IPv4 Fabric-Virtual-Gateway configurations, for use with VRF address family IPv4 unicast.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <ve>
      <gve-name>10</gve-name>
      <ip>
        <ip-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-
gateway">
          <ip-gw-id>1</ip-gw-id>
          <enable></enable>
        </ip-anycast-gateway>
      </ip>
    </ve>
  </interface>
</interface-vlan>
```

### Parameters

***gve-name***

Specifies the corresponding VLAN interface

***ip-gw-id***

Specifies the gateway id

**enable**

Enables IPv4 Fabric-Virtual-Gateway configurations

## interface/ve/{vlan-id}/ip/fabric-virtual-gateway/gateway-address

Configures the gateway IP address for IPv4 or IPv6 Fabric-Virtual-Gateway sessions.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <ve>
      <gve-name>10</gve-name>
      <ip>
        <ip-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-
gateway">
          <ip-gw-id>1</ip-gw-id>
          <ipv4-gateway-address>1.1.1.1/24</ipv4-gateway-address>
        </ip-anycast-gateway>
      </ip>
    </ve>
  </interface>
</interface-vlan>
```

### Parameters

*gve-name*

Specifies the corresponding VLAN interface

*ip-gw-id*

Specifies the gateway id

*ipv4-gateway-address*

Specifies the IPv4 address in the format A.B.C.D/L



# interface/ve/{vlan-id}/ip/fabric-virtual-gateway/gratuitous-arp/timer

Configures the global gratuitous ARP timer in VCS.

## Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <ve>
      <gve-name>10</gve-name>
      <ip>
        <ip-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-
gateway">
          <ip-gw-id>1</ip-gw-id>
          <gratuitous-arp>
            <gve-timer>3</gve-timer>
          </gratuitous-arp>
        </ip-anycast-gateway>
      </ip>
    </ve>
  </interface>
</interface-vlan>
```

## Parameters

### *gve-name*

Specifies the corresponding VLAN interface

### *ip-gw-id*

Specifies the gateway id

### *gve-timer*

Specifies the gratuitous ARP timer in seconds. The value can range from 0 through 360 seconds

## interface/ve/{vlan-id}/ip/fabric-virtual-gateway/hold-time

Configures the duration for which the Fabric-Virtual-Gateway session will remain idle before activating the configuration on the system.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <ve>
      <gve-name>10</gve-name>
      <ip>
        <ip-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-
gateway">
          <ip-gw-id>1</ip-gw-id>
          <hold-time>5</hold-time>
        </ip-anycast-gateway>
      </ip>
    </ve>
  </interface>
</interface-vlan>
```

### Parameters

*gve-name*

Specifies the corresponding VLAN interface

*ip-gw-id*

Specifies the gateway id

*hold-time*

Specifies the hold time in seconds

# interface/ve/{vlan-id}/ip/fabric-virtual-gateway/load-balancing-disable

Disables load balancing globally.

## Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <ve>
      <gve-name>10</gve-name>
      <ip>
        <ip-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-
gateway">
          <ip-gw-id>1</ip-gw-id>
          <load-balancing-disable></load-balancing-disable>
        </ip-anycast-gateway>
      </ip>
    </ve>
  </interface>
</interface-vlan>
```

## Parameters

### *gve-name*

Specifies the corresponding VLAN interface

### *ip-gw-id*

Specifies the gateway id

### **load-balancing-disable**

Disables load balancing globally

## interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway

Enables IPv6 Fabric-Virtual-Gateway configurations.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <ve>
      <gve-name>10</gve-name>
      <ipv6>
        <ipv6-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-
gateway">
          <ipv6-gw-id>1</ipv6-gw-id>
          <enable></enable>
        </ipv6-anycast-gateway>
      </ipv6>
    </ve>
  </interface>
</interface-vlan>
```

### Parameters

***gve-name***

Specifies the corresponding VLAN interface

***ipv6-gw-id***

Specifies the gateway id

**enable**

Enables IPv6 Fabric-Virtual-Gateway configurations

# interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway/gateway-address

Configures the gateway IP address for IPv6 Fabric-Virtual-Gateway sessions.

## Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <ve>
      <gve-name>10</gve-name>
      <ipv6>
        <ipv6-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-
gateway">
          <ipv6-gw-id>1</ipv6-gw-id>
          <ipv6-gateway-address>
            <ipv6-gw-addr>2001:384d::284:38/24</ipv6-gw-addr>
          </ipv6-gateway-address>
        </ipv6-anycast-gateway>
      </ipv6>
    </ve>
  </interface>
</interface-vlan>
```

## Parameters

### *gve-name*

Specifies the corresponding VLAN interface

### *ipv6-gw-id*

Specifies the gateway id

### *ipv6-gw-addr*

Specifies the IPv6 address in the format x:x:x::x/L

## interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway/gratuitous-arp/timer

Configures the global gratuitous ARP timer in VCS.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <ve>
      <gve-name>10</gve-name>
      <ipv6>
        <ipv6-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-
gateway">
          <ipv6-gw-id>1</ipv6-gw-id>
          <gratuitous-arp>
            <gve-timer>5</gve-timer>
          </gratuitous-arp>
        </ipv6-anycast-gateway>
      </ipv6>
    </ve>
  </interface>
</interface-vlan>
```

### Parameters

*gve-name*

Specifies the corresponding VLAN interface

*ipv6-gw-id*

Specifies the gateway id

*gve-timer*

Specifies the gratuitous ARP timer in seconds. The value can range from 0 through 360 seconds

# interface/vlan

Allows the user to create 802.1Q VLANs, as well as service or transport VFs in a Virtual Fabrics context.

## Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
    </vlan>
  </interface>
</interface-vlan>
```

## Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

## interface/vlan/{vlan-number}/ip/arp/inspection

Enables dynamic ARP inspection (DAI) on a VLAN.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>1</name>
      <ip>
        <arp xmlns="urn:brocade.com:mgmt:brocade-dai">
          <inspection>
            <trust></trust>
          </inspection>
        </arp>
      </ip>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the interface name

**trust**

Enables dynamic ARP inspection (DAI) on a VLAN



## interface/vlan/{vlan-number}/ip/arp/inspection/filter

Applies an address resolution protocol (ARP) access list (ACL) to a VLAN, which is one of the steps implementing dynamic ARP inspection (DAI) on a VLAN.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ip>
        <arp xmlns="urn:brocade.com:mgmt:brocade-dai">
          <inspection>
            <filter>
              <acl-name>acl1</acl-name>
            </filter>
          </inspection>
        </arp>
      </ip>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

*acl-name*

Specifies which ACL is applied to the VLAN

## interface/vlan/{vlan-number}/ip/arp/inspection/logging/acl-match

Specifies whether or not to enable dynamic ARP inspection (DAI) logging.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ip>
        <arp xmlns="urn:brocade.com:mgmt:brocade-dai">
          <inspection>
            <logging>
              <acl-match>matchlog</acl-match>
            </logging>
          </inspection>
        </arp>
      </ip>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

*acl-match*

**matchlog**

Enables DAI logging

**none**

Disables DAI logging

## interface/vlan/{vlan-number}/ip/igmp/snooping/enable

Enables Internet Group Management Protocol (IGMP) snooping for a specific VLAN interface.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ip>
        <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping">
          <snooping>
            <enable></enable>
          </snooping>
        </igmp>
      </ip>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

**enable**

Enables Internet Group Management Protocol (IGMP) snooping for a specific VLAN interface

## interface/vlan/{vlan-number}/ip/igmp/snooping/fast-leave

Enables Internet Group Management Protocol (IGMP) snooping fast-leave processing for a VLAN. This allows the removal of an interface from the forwarding table without sending out group-specific queries to the interface.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ip>
        <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping">
          <snooping>
            <fast-leave></fast-leave>
          </snooping>
        </igmp>
      </ip>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

**fast-leave**

Enables Internet Group Management Protocol (IGMP) snooping fast-leave processing for a VLAN

## interface/vlan/{vlan-number}/ip/igmp/snooping/mrouter

Configures a VLAN port member to be a multicast router interface. A multicast router interface faces toward a multicast router or other Internet Group Management Protocol (IGMP) querier.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ip>
        <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping">
          <snooping>
            <mrouter>
              <interface>
                <if-type>tengigabitethernet</if-type>
                <value>1/0/5</value>
              </interface>
            </mrouter>
          </snooping>
        </igmp>
      </ip>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

*if-type*

Specifies an interface type

*value*

Specifies the interface name in the format rbridge-id/slot/port

## interface/vlan/{vlan-number}/ip/igmp/snooping/querier

Activates the Internet Group Management Protocol (IGMP) snooping querier on a VLAN.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ip>
        <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping">
          <snooping>
            <querier>
              <qenable></qenable>
            </querier>
          </snooping>
        </igmp>
      </ip>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

**qenable**

Activates the Internet Group Management Protocol (IGMP) snooping querier on a VLAN

## interface/vlan/{vlan-number}/ip/igmp/snooping/restrict-unknown-multicast

Activates the Internet Group Management Protocol (IGMP) snooping hello-based mrouter detection functionality.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ip>
        <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping">
          <snooping>
            <restrict-unknown-multicast></restrict-unknown-multicast>
          </snooping>
        </igmp>
      </ip>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

**restrict-unknown-multicast**

Activates the Internet Group Management Protocol (IGMP) snooping hello-based mrouter detection functionality

## interface/vlan/{vlan-number}/ip/igmp/static-group

Configures the static group membership entries for a specific interface.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>1</name>
      <ip>
        <igmp xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping">
          <static-group>
            <mcast-address>225.1.1.1</mcast-address>
            <interface>interface</interface>
            <if-type>tengigabitethernet</if-type>
            <value>1/0/5</value>
          </static-group>
        </igmp>
      </ip>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

- name*  
Specifies the interface name
- mcast-address*  
Specifies the group address
- if-type*  
Specifies the interface type
- value*  
Specifies the interface name



## interface/vlan/{vlan-number}/ipv6/mld/last-member-query-count

Configures the IPv6 MLDv1 snooping last-member query count on a specific VLAN interface.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ipv6>
        <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
          <last-member-query-count>3</last-member-query-count>
        </mldVlan>
      </ipv6>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

*last-member-query-count*

Specifies the last-member query count value. The value can range from from 1 through 10. The default value is 2

## interface/vlan/{vlan-number}/ipv6/mld/last-member-query-interval

Configures the IPv6 MLDv1 snooping last-member query interval on a specific VLAN interface.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ipv6>
        <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
          <last-member-query-interval>1100</last-member-query-interval>
        </mldVlan>
      </ipv6>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

*last-member-query-interval*

Specifies the last-member query interval value. The value can range from 100 through 2500 milliseconds. The default value is 1000 milliseconds

## interface/vlan/{vlan-number}/ipv6/mld/query-interval

Configures the maximum interval for IPv6 MLDv1 snooping queries for a specific VLAN interface.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ipv6>
        <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
          <query-interval>130</query-interval>
        </mldVlan>
      </ipv6>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

*query-interval*

Specifies the query interval. The value can range from 1 through 18000 seconds. The default value is 125 seconds

## interface/vlan/{vlan-number}/ipv6/mld/query-max-response-time

Configures the maximum response time for IPv6 MLDv1 snooping queries for a specific VLAN interface.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ipv6>
        <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
          <query-max-response-time>15</query-max-response-time>
        </mldVlan>
      </ipv6>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

*query-max-response-time*

Specifies the query max response time. The value can range from 1 through 25 seconds. The default value is 10 seconds

## interface/vlan/{vlan-number}/ipv6/mld/snooping/enable

Enables IPv6 MLDv1 Layer 2 snooping globally or on a specific VLAN.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ipv6>
        <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
          <snooping>
            <enable></enable>
          </snooping>
        </mldVlan>
      </ipv6>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

**enable**

Enables IPv6 MLDv1 Layer 2 snooping globally or on a specific VLAN

## interface/vlan/{vlan-number}/ipv6/mld/snooping/fast-leave

Configures the immediate-leave feature for the groups on a specific VLAN.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ipv6>
        <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
          <snooping>
            <fast-leave></fast-leave>
          </snooping>
        </mldVlan>
      </ipv6>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

**fast-leave**

Enables the immediate-leave feature for the groups on a specific VLAN

## interface/vlan/{vlan-number}/ipv6/mld/snooping/mrouter

Configures a VLAN port member to be a multicast router (mrouter) port.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ipv6>
        <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
          <snooping>
            <mrouter>
              <interface>
                <if-type>TenGigabitEthernet</if-type>
                <value>1/0/5</value>
              </interface>
            </mrouter>
          </snooping>
        </mldVlan>
      </ipv6>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

*if-type*

Specifies the interface type

*value*

Specifies the interface name in the format rbridge-id/slot/port

## interface/vlan/{vlan-number}/ipv6/mld/snooping/querier

Activates IPv6 MLDv1 Layer 2 multicast snooping querier functionality for a VLAN.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ipv6>
        <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
          <snooping>
            <querier>
              <qenable></qenable>
            </querier>
          </snooping>
        </mldVlan>
      </ipv6>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

*enable*

Activates IPv6 MLDv1 Layer 2 multicast snooping querier functionality for a VLAN



## interface/vlan/{vlan-number}/ipv6/mld/snooping/restrict-unknown-multicast-vlan

Reactivates on a VLAN the flooding of unregistered multicast data traffic on IPv6 MLDv1 snooping-enabled VLANs.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ipv6>
        <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
          <snooping>
            <restrict-unknown-multicast-vlan></restrict-unknown-multicast-
vlan>
          </snooping>
        </mldVlan>
      </ipv6>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

**restrict-unknown-multicast-vlan**

Reactivates on a VLAN the flooding of unregistered multicast data traffic on IPv6 MLDv1 snooping-enabled VLANs

## interface/vlan/{vlan-number}/ipv6/mld/snooping/robustness-variable

Configures a value to compensate for packet loss in congested networks.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ipv6>
        <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
          <snooping>
            <robustness-variable>3</robustness-variable>
          </snooping>
        </mldVlan>
      </ipv6>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

*robustness-variable*

Specifies the robustness value. The value can range from 2 through 10. The default value is 2

## interface/vlan/{vlan-number}/ipv6/mld/startup-query-count

Configures the IPv6 MLDv1 number of queries that are separated by the startup query interval.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ipv6>
        <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
          <startup-query-count>2</startup-query-count>
        </mldVlan>
      </ipv6>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

*startup-query-count*

Specifies the startup query count. The value can range from 1 through 10. The default value is 1

## interface/vlan/{vlan-number}/ipv6/mld/startup-query-interval

Configures the IPv6 MLDv1 startup query interval.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <ipv6>
        <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
          <startup-query-interval>2</startup-query-interval>
        </mldVlan>
      </ipv6>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

*startup-query-interval*

Specifies the startup query interval. The value can range from 1 through 450. The default value is 1.

## interface/vlan/{vlan-number}/ipv6/mld/static-group

Configures IPv6 MLDv1 Layer 2 multicast static IPv6 groups on an interface for a VLAN.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2000</name>
      <ipv6>
        <mldVlan xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
          <static-group>
            <mcast-address>ff1e::1</mcast-address>
            <interface>interface</interface>
            <if-type>FortyGigabitEthernet</if-type>
            <value>1/2/1</value>
          </static-group>
        </mldVlan>
      </ipv6>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

*mcast-address*

Specifies a multicast address to be joined, in the format xxxx:xxxx/ml, xxxx:xxxx::/ml

*interface*

Ethernet or port-channel interface

*if-type*

Specifies the interface type

*value*

Specifies the interface name

## interface/vlan/{vlan-number}/name

Assigns a descriptive name to a VLAN

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>1</name>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the characters of the name. The string can be between 1 and 32 characters

# interface/vlan/{vlan-number}/private-vlan

Configures a VLAN as a private VLAN (PVLAN).

## Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>200</name>
      <private-vlan>
        <pvlan-type-leaf>primary</pvlan-type-leaf>
      </private-vlan>
    </vlan>
  </interface>
</interface-vlan>
```

## Parameters

*name*

Specifies the interface name

*pvlan-type-leaf*

Specifies the private VLAN type

**isolated**

The PVLAN is configured as an Isolated VLAN

**community**

The PVLAN is configured as a Community VLAN

**primary**

The PVLAN is configured as a Primary VLAN

## interface/vlan/{vlan-number}/private-vlan/association

Associates a secondary VLAN to a primary VLAN.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>5000</name>
      <private-vlan>
        <association>
          <sec-assoc-add>7000</sec-assoc-add>
        </association>
      </private-vlan>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

*sec-assoc-add*

Adds the association



## interface/vlan/{vlan-number}/rspan-vlan

Configures the VLAN to support RSPAN (Remote Switched Port Analyzer) traffic analysis.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>2500</name>
      <remote-span xmlns="urn:brocade.com:mgmt:brocade-span"></remote-span>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

## interface/vlan/{vlan-number}/suppress-arp

Enables address-resolution protocol (ARP)-suppression on the current VLAN. ARP suppression can lessen ARP-related traffic within an IP Fabric.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>1</name>
      <suppress-arp xmlns="urn:brocade.com:mgmt:brocade-arp">
        <suppress-arp-enable></suppress-arp-enable>
      </suppress-arp>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

*suppress-arp-enable*

Enables ARP-suppression on the current VLAN

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## interface/vlan/{vlan-number}/suppress-nd

Enables neighbor-discovery (ND) suppression on the current VLAN. ND suppression can lessen the ND amount of control traffic within an IP Fabric.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>1</name>
      <suppress-nd xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
        <suppress-nd-enable></suppress-nd-enable>
      </suppress-nd>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN interface to configure. The value can range from 1 through 8191

*suppress-nd-enable*

Enables ND suppression on the current VLAN

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## interface/vlan/{vlan-number}/transport-service

In a Virtual Fabrics context, associates a service VF with a trunk port interface as a transport VF.

### Usage

```
<interface-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">
  <interface>
    <vlan>
      <name>6011</name>
      <transport-service>21</transport-service>
    </vlan>
  </interface>
</interface-vlan>
```

### Parameters

*name*

Specifies the VLAN number

*transport-service*

Specifies the transport LAN service ID. The value can range from 1 through 1000

# ip/access-list/extended

Configures extended IP access list.

## Usage

```
<ip-acl xmlns="urn:brocade.com:mgmt:brocade-ip-access-list">
  <ip>
    <access-list>
      <extended>
        <name>acl5</name>
      </extended>
    </access-list>
  </ip>
</ip-acl>
```

## Parameters

*name*

Access list name

## ip/access-list/extended/{acl-name}/seq

Configures the sequence number.

### Usage

```
<ip-acl xmlns="urn:brocade.com:mgmt:brocade-ip-access-list">
  <ip>
    <access-list>
      <extended>
        <name>acl5</name>
        <hide-ip-acl-ext>
          <seq>
            <seq-id>14</seq-id>
            <action>deny</action>
            <protocol-type>ip</protocol-type>
            <src-host-any-sip>any</src-host-any-sip>
            <dst-host-any-dip>host</dst-host-any-dip>
            <dst-host-ip>1.1.1.1</dst-host-ip>
            <vlan>1</vlan>
            <count></count>
            <log></log>
          </seq>
        </hide-ip-acl-ext>
      </extended>
    </access-list>
  </ip>
</ip-acl>
```

### Parameters

*name*

Access list name

*seq-id*

Specifies the sequence number for the rule

*action*

Specifies the action to be performed. The following actions can be performed.

**deny**

Drop traffic

**hard-drop**

Force drop traffic

**permit**

Allow traffic

*protocol-type*

The type of protocol used

*src-host-any-sip*

Specifies any source host IP address

*dst-host-any-dip*

Specifies any destination host IP address

*dst-host-ip*

Specifies the destination host IP address

*vlan*

VLAN interface number

**count**

Enables the counting of the packets matching the rule

**log**

Packets matching the filter are sent to the CPU and a corresponding log entry is generated by enabling the logging mechanism. This parameter is only available with permit and deny.

## ip/access-list/standard

Configures a standard IP Access list.

### Usage

```
<ip-acl xmlns="urn:brocade.com:mgmt:brocade-ip-access-list">
  <ip>
    <access-list>
      <standard>
        <name>acl20</name>
      </standard>
    </access-list>
  </ip>
</ip-acl>
```

### Parameters

*name*  
Access list name



## ip/access-list/standard/{acl-name}/seq

Configures sequence number.

### Usage

```
<ip-acl xmlns="urn:brocade.com:mgmt:brocade-ip-access-list">
  <ip>
    <access-list>
      <standard>
        <name>acl20</name>
        <hide-ip-acl-std>
          <seq>
            <seq-id>20</seq-id>
            <action>permit</action>
            <src-host-any-sip>host</src-host-any-sip>
            <src-host-ip>1.1.1.1</src-host-ip>
            <count></count>
            <log></log>
          </seq>
        </hide-ip-acl-std>
      </standard>
    </access-list>
  </ip>
</ip-acl>
```

### Parameters

*name*

Access list name

*seq-id*

Specifies the sequence number for the rule

*action*

Specifies the action to be performed. The following actions can be performed.

**deny**

Drop traffic

**hard-drop**

Force drop traffic

**permit**

Allow traffic

*src-host-any-sip*

Specifies any source host IP address

*src-host-ip*

Specifies the source host IP address

**count**

Enables the counting of the packets matching the rule

**log**

Packets matching the filter are sent to the CPU and a corresponding log entry is generated by enabling the logging mechanism. This parameter is only available with permit and deny.

## ip/dns/domain-name

Configures domain name.

### Usage

```
<ip xmlns="urn:brocade.com:mgmt:brocade-common-def">  
  <dns xmlns="urn:brocade.com:mgmt:brocade-ip-administration">  
    <dom-name>  
      <domain-name>mydomain</domain-name>  
    </dom-name>  
  </dns>  
</ip>
```

### Parameters

*domain-name*

Specifies the domain name

# ip/dns/name-server

Configures name server parameters.

## Usage

```
<ip xmlns="urn:brocade.com:mgmt:brocade-common-def">
  <dns xmlns="urn:brocade.com:mgmt:brocade-ip-administration">
    <name-server>
      <name-server-ip>1.1.1.1</name-server-ip>
    </name-server>
  </dns>
</ip>
```

## Parameters

*name-server-ip*

The IPv4 or IPv6 address for name server

## ip/igmp

Enables layer2 Internet Group Management Protocol.

### Usage

```
<igmp-snooping xmlns="urn:brocade.com:mgmt:brocade-igmp-snooping">
  <ip>
    <igmp>
      <snooping>
        <enable></enable>
      </snooping>
    </igmp>
  </ip>
</igmp-snooping>
```

### Parameters

*enable*

Enables IGMP snooping

# ipv6/access-list/extended

Configure IPv6 extended access list.

## Usage

```
<ipv6-acl xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list">
  <ipv6>
    <access-list>
      <extended>
        <name>acl114</name>
      </extended>
    </access-list>
  </ipv6>
</ipv6-acl>
```

## Parameters

*name*

Access list name

## ipv6/access-list/extended/{acl-name}/seq

Configures the sequence number.

### Usage

```
<ipv6-acl xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list">
  <ipv6>
    <access-list>
      <extended>
        <name>acl14</name>
        <seq>
          <seq-id>14</seq-id>
          <action>deny</action>
          <protocol-type>ipv6</protocol-type>
          <src-host-any-sip>any</src-host-any-sip>
          <dst-host-any-dip>host</dst-host-any-dip>
          <dst-host-ip>2004:384d::24:23</dst-host-ip>
          <vlan>1</vlan>
          <count></count>
          <log></log>
        </seq>
      </extended>
    </access-list>
  </ipv6>
</ipv6-acl>
```

### Parameters

*name*

Access list name

*seq-id*

Specifies the sequence number for the rule

*action*

Specifies the action to be performed. The following actions can be performed.

**deny**

Drop traffic

**hard-drop**

Force drop traffic

**permit**

Allow traffic

*protocol-type*

The type of protocol used

*src-host-any-sip*

Specifies any source host IP address

*dst-host-any-dip*

Specifies any destination host IP address

*dst-host-ip*

Specifies the destination host IP address

*vlan*

VLAN interface number

**count**

Enables the counting of the packets matching the rule

**log**

Packets matching the filter are sent to the CPU and a corresponding log entry is generated by enabling the logging mechanism. This parameter is only available with permit and deny.

## ip/access-list/standard

Configures IPv6 standard access list.

### Usage

```
<ipv6-acl xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list">
  <ipv6>
    <access-list>
      <standard>
        <name>acl24</name>
      </standard>
    </access-list>
  </ipv6>
</ipv6-acl>
```

### Parameters

*name*  
Access list name



## ipv6/access-list/standard/{acl-name}/seq

Configures the sequence number.

### Usage

```
<ipv6-acl xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list">
  <ipv6>
    <access-list>
      <standard>
        <name>acl24</name>
        <seq>
          <seq-id>24</seq-id>
          <action>permit</action>
          <src-host-any-sip>any</src-host-any-sip>
          <count></count>
          <log></log>
        </seq>
      </standard>
    </access-list>
  </ipv6>
</ipv6-acl>
```

### Parameters

*name*

Access list name

*seq-id*

Specifies the sequence number for the rule

*action*

Specifies the action to be performed. The following actions can be performed.

**deny**

Drop traffic

**hard-drop**

Force drop traffic

**permit**

Allow traffic

*src-host-any-sip*

Specifies any source host IP address

**count**

Enables the counting of the packets matching the rule

**log**

Packets matching the filter are sent to the CPU and a corresponding log entry is generated by enabling the logging mechanism. This parameter is only available with permit and deny.

## ipv6/mld

Enables Multicast Listener Discovery (MLD) Snooping.

### Usage

```
<mld-snooping xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
  <ipv6>
    <mld>
      <snooping>
        <enable></enable>
      </snooping>
    </mld>
  </ipv6>
</mld-snooping>
```

### Parameters

**enable**

Enables MLD Snooping

# lACP

Configures LACP system priority

## Usage

```
<lACP xmlns="urn:brocade.com:mgmt:brocade-lACP">  
  <system-priority>32750</system-priority>  
</lACP>
```

## Parameters

*system-priority*

Specifies the LACP system priority. The value can range from 1 through 65535. The default value is 32768

# ldap-server/host

Configures a LDAP server for AAA settings.

## Usage

```
<ldap-server xmlns="urn:brocade.com:mgmt:brocade-aaa">
  <host>
    <hostname>1.1.1.1</hostname>
    <port>389</port>
    <use-vrf>vrf1</use-vrf>
    <retries>6</retries>
    <timeout>10</timeout>
    <basedn>base</basedn>
  </host>
</ldap-server>
```

## Parameters

### *hostname*

LDAP server host name

### *port*

TCP authentication port. The number of characters can range from 1 through 255

### *use-vrf*

Specifies the user defined VRF name

### *retries*

Number of retries for this server connection. The number of retries can range from 0 through 100. The default number of retries is 5

### *timeout*

Wait time for this server to respond. The value can range from 1 through 60 seconds. The default wait time is 5 seconds

### *basedn*

Base domain name. The number of characters can range from 1 through 255

## History

| Release version | History   |
|-----------------|---|
| 7.0.0           | This Netconf call was modified the include the parameter <i>use-vrf</i> . |

# ldap-server/maprole

Configures LDAP server settings for maps.

## Usage

```
<ldap-server xmlns="urn:brocade.com:mgmt:brocade-aaa">
  <maprole>
    <group>
      <ad-group>AD</ad-group>
      <switch-role>admin</switch-role>
    </group>
  </maprole>
</ldap-server>
```

## Parameters

*ad-group*

AD group belongs to user on the AD Server

*switch-role*

Specifies the role name

line

# line

Configures CLI session.

## Usage

```
<terminal-cfg xmlns="urn:brocade.com:mgmt:brocade-terminal">  
  <line>  
    <sessionid>vty</sessionid>  
    <exec-timeout>10</exec-timeout>  
  </line>  
</terminal-cfg>
```

## Parameters

**vt**

Specifies the terminal type

*exec-timeout*

Specifies CLI session maximum idle time before automatic logout. The timeout value can range from 0 through 130 minutes. The default timeout value is set to 0 minute

# logging/auditlog

Configures auditlog classes.

## Usage

```
<logging xmlns="urn:brocade.com:mgmt:brocade-ras">
  <auditlog>
    <class>
      <class>SECURITY</class>
    </class>
  </auditlog>
</logging>
```

## Parameters

*class*

Specifies auditlog class. The following classes are available

**CONFIGURATION**

**FIRMWARE**

**SECURITY**

## logging/raslog/console

Configures RASLOG console severity.

### Usage

```
<logging xmlns="urn:brocade.com:mgmt:brocade-ras">  
  <raslog>  
    <console>INFO</console>  
  </raslog>  
</logging>
```

### Parameters

*console*

Specifies RASLOG console severity. The following severities are available

**CRITICAL**

**ERROR**

**INFO**

**WARNING**



# logging/raslog/message

Configures RASLOG message.

## Usage

```
<logging xmlns="urn:brocade.com:mgmt:brocade-ras">
  <raslog>
    <message>
      <msgId>
        <msgId>AUTH-1001</msgId>
        <severity>DEFAULT</severity>
        <suppress></suppress>
      </msgId>
    </message>
  </raslog>
</logging>
```

## Parameters

*msgId*

Specifies the Message ID

*severity*

Specifies the severity level

**suppress**

Suppresses the RASLOG message

## logging/syslog-client

Configures local IP syslog-client.

### Usage

```
<logging xmlns="urn:brocade.com:mgmt:brocade-ras">  
  <syslog-client>  
    <localip>CHASSIS_IP</localip>  
  </syslog-client>  
</logging>
```

### Parameters

*localip*

Specifies local IP type. The following IP types are available

**CHASSIS\_IP**

**MM\_IP**

# logging/syslog-facility

Configures SYSLOG facility.

## Usage

```
<logging xmlns="urn:brocade.com:mgmt:brocade-ras">  
  <syslog-facility>  
    <local>LOG_LOCAL3</local>  
  </syslog-facility>  
</logging>
```

## Parameters

*local*

Specifies SYSLOG facility

# logging/syslog-server

Configures SYSLOG server address.

## Usage

```
<logging xmlns="urn:brocade.com:mgmt:brocade-ras">
  <syslog-server>
    <syslogip>1.1.1.1</syslogip>
    <use-vrf>mgmt-vrf</use-vrf>
    <secure></secure>
    <port>6514</port>
  </syslog-server>
</logging>
```

## Parameters

*syslogip*

The IPv4 or IPv6 address

*use-vrf*

Specifies the VRF to use for sending notification to the receiver

**secure**

Indicates if transport is secure

*port*

Port number on which the syslog server is listening

## History

| Release version | History   |
|-----------------|---|
| 7.0.0           | This Netconf call was modified the include the parameter <i>use-vrf</i> . |

# mac/access-list/extended

Configures extended MAC access list.

## Usage

```
<mac xmlns="urn:brocade.com:mgmt:brocade-mac-access-list">  
  <access-list>  
    <extended>  
      <name>acl21</name>  
    </extended>  
  </access-list>  
</mac>
```

## Parameters

*name*

Access list name

## mac/access-list/extended/{acl-name}/seq

Configures the sequence number

### Usage

```
<mac xmlns="urn:brocade.com:mgmt:brocade-mac-access-list">
  <access-list>
    <extended>
      <name>acl21</name>
      <hide-mac-acl-ext>
        <seq>
          <seq-id>25</seq-id>
          <action>hard-drop</action>
          <source>0011.1122.2233</source>
          <src-mac-addr-mask>1212.2323.3131</src-mac-addr-mask>
          <dst>any</dst>
          <ethertype>arp</ethertype>
          <vlan>1</vlan>
          <count></count>
          <log></log>
        </seq>
      </hide-mac-acl-ext>
    </extended>
  </access-list>
</mac>
```

### Parameters

*name*

Access list name

*seq-id*

The sequence ID

*action*

Displays all rules with the specified action. The following actions are allowed

**deny**

Drop traffic

**hard-drop**

Force drop traffic

**permit**

Allow traffic

*source*

Source details

*src-mac-addr-mask*

Specifies the source MAC address mask

**dst**

Specifies details on the destination

*ethertype*

Filters extended ACLs traffic based on ethertype

*vlan*

Specifies the VLAN number

**count**

Displays the count of forwarding entries

**log**

Log

## mac/access-list/standard

Configures standard MAC access-list.

### Usage

```
<mac xmlns="urn:brocade.com:mgmt:brocade-mac-access-list">  
  <access-list>  
    <standard>  
      <name>acl25</name>  
    </standard>  
  </access-list>  
</mac>
```

### Parameters

*name*

Access list name



## mac/access-list/standard/{acl-name}/seq

Configures the sequence number.

### Usage

```
<mac xmlns="urn:brocade.com:mgmt:brocade-mac-access-list">
  <access-list>
    <standard>
      <name>acl25</name>
      <hide-mac-acl-std>
        <seq>
          <seq-id>21</seq-id>
          <action>permit</action>
          <source>0011.1122.2233</source>
          <src-mac-addr-mask>0101.0202.0303</src-mac-addr-mask>
          <count></count>
          <log></log>
        </seq>
      </hide-mac-acl-std>
    </standard>
  </access-list>
</mac>
```

### Parameters

*name*

Access list name

*seq-id*

The sequence ID

*action*

Displays all rules with the specified action. The following actions are allowed

**deny**

Drop traffic

**hard-drop**

Force drop traffic

**permit**

Allow traffic

*source*

Source details

*src-mac-addr-mask*

Specifies the source MAC address mask

**count**

Displays the count of forwarding entries

**log**

Log

## mac-address-table/aging-time

Configures mac-address-table aging time.

### Usage

```
<mac-address-table xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">  
  <aging-time>  
    <legacy-time-out>350</legacy-time-out>  
  </aging-time>  
</mac-address-table>
```

### Parameters

*legacy-time-out*

Seconds in standalone mode. The value can range from 60 through 100000 seconds

## mac-address-table/consistency-check/interval

Configures MAC consistency check interval.

### Usage

```
<mac-address-table xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">  
  <consistency-check>  
    <mac-consistency-check-interval>150</mac-consistency-check-interval>  
  </consistency-check>  
</mac-address-table>
```

### Parameters

*mac-consistency-check-interval*

Specifies MAC consistency check interval in seconds. The interval can range from 120 through 3600 seconds. The interval is 300 seconds

## mac-address-table/consistency-check/suppress

Suppresses MAC consistency check.

### Usage

```
<mac-address-table xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">  
  <consistency-check>  
    <mac-consistency-check-suppress></mac-consistency-check-suppress>  
  </consistency-check>  
</mac-address-table>
```

### Parameters

**mac-consistency-check-suppress**

Suppresses MAC consistency check

## mac-address-table/learning-mode

Configures conversational learning mode.

### Usage

```
<mac-address-table xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">  
  <learning-mode>conversational</learning-mode>  
</mac-address-table>
```

### Parameters

*learning-mode*

Enables conversational learning mode

## mac-address-table/mac-move/detect

Enables MAC move detect.

### Usage

```
<mac-address-table xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">  
  <mac-move>  
    <mac-move-detect-enable></mac-move-detect-enable>  
  </mac-move>  
</mac-address-table>
```

### Parameters

**mac-move-detect-enable**

Enables MAC move detect

## mac-address-table/mac-move/limit

Configures MAC move detect limit.

### Usage

```
<mac-address-table xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">  
  <mac-move>  
    <mac-move-limit>100</mac-move-limit>  
  </mac-move>  
</mac-address-table>
```

### Parameters

*mac-move-limit*

Specifies MAC move detect limit. The value can range from 5 through 500. The default value is 20

## mac-address-table/static

Configures static address.

### Usage

```
<mac-address-table xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">
  <static>
    <mac-address>0011.1122.2233</mac-address>
    <forward>forward</forward>
    <interface-type>tengigabitethernet</interface-type>
    <interface-name>1/0/5</interface-name>
    <vlan>vlan</vlan>
    <vlanid>1</vlanid>
  </static>
</mac-address-table>
```

### Parameters

*mac-address*

Specifies the MAC address. MAC address in HHHH.HHHH.HHHH format

**forward**

Forwards the MAC address to the interface

*interface-type*

Specifies the interface type. The following interface types can be configured

**fortygigabitethernet**

40G physical ethernet interface

**gigabitethernet**

1G physical ethernet interface

**hundredgigabitethernet**

100G physical ethernet interface

**port-channel**

Port-Channel or LAG interface

**tengigabitethernet**

10G physical ethernet interface

*interface-name*

Specifies the interface name

*vlanid*

Specifies the VLAN number



# mac-group

Configures MAC group.

## Usage

```
<mac-group xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">  
  <mac-group-id>2</mac-group-id>  
</mac-group>
```

## Parameters

*mac-group-id*

Specifies MAC group ID. The value can range from 1 through 500

## mac-group/mac

Adds MAC address to the MAC group.

### Usage

```
<mac-group xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">  
  <mac-group-id>1</mac-group-id>  
  <mac-group-entry>  
    <entry-address>0011.1122.2233</entry-address>  
  </mac-group-entry>  
</mac-group>
```

### Parameters

*mac-group-id*

Specifies MAC group ID

*entry-address*

Specifies MAC address in HHHH.HHHH.HHHH format

# monitor/session

Configures SPAN sessions.

## Usage

```
<monitor xmlns="urn:brocade.com:mgmt:brocade-span">  
  <session>  
    <session-number>50</session-number>  
  </session>  
</monitor>
```

## Parameters

*session-number*

Specifies the session ID. The value can range from 1 through 512

## monitor/session/{session-id}/description

Configures a description for the session.

### Usage

```
<monitor xmlns="urn:brocade.com:mgmt:brocade-span">
  <session>
    <session-number>50</session-number>
    <description>session</description>
  </session>
</monitor>
```

### Parameters

*session-number*

Specifies session ID

*description*

Specifies the session description

## monitor/session/{session-id}/source

Configures source and destination interface for monitor session.

### Usage

```
<monitor xmlns="urn:brocade.com:mgmt:brocade-span">
  <session>
    <session-number>1</session-number>
    <span-command>
      <source>source</source>
      <src-tengigabitethernet>tengigabitethernet</src-tengigabitethernet>
      <src-tengigabitethernet-val>1/0/15</src-tengigabitethernet-val>
      <destination>destination</destination>
      <dest-tengigabitethernet>tengigabitethernet</dest-tengigabitethernet>
      <dest-tengigabitethernet-val>1/0/18</dest-tengigabitethernet-val>
      <direction>rx</direction>
    </span-command>
  </session>
</monitor>
```

### Parameters

#### *source*

Specifies the source interface. The source interface can be one of the following

#### **fortygigabitethernet**

40G physical ethernet interface

#### **gigabitethernet**

1000G physical ethernet interface

#### **hundredgigabitethernet**

100G physical ethernet interface

#### **tengigabitethernet**

10G physical ethernet interface

#### *destination*

Specifies the destination interface. The destination interface can be one of the following

#### **fortygigabitethernet**

40G physical ethernet interface

#### **gigabitethernet**

1000G physical ethernet interface

#### **hundredgigabitethernet**

100G physical ethernet interface

#### **rspan-vlan**

Remote VLAN

#### **tengigabitethernet**

10G physical ethernet interface

#### *direction*

Speicifies mirroe direction. The following directions are available

#### **both**

Ingress and Egress mirroring

#### **rx**

**tx**                    Ingress mirroring  
                         Egress mirroring

## nas/auto-qos

Configures automatic quality of service.

### Usage

```
<nas xmlns="urn:brocade.com:mgmt:brocade-qos">  
  <auto-qos></auto-qos>  
</nas>
```

### Parameters

*auto-qos*

Enables automatic quality of service

## nas/auto-qos/set/cos

Configures CoS value.

### Usage

```
<nas xmlns="urn:brocade.com:mgmt:brocade-qos">  
  <auto-qos>  
    <set>  
      <cos>4</cos>  
    </set>  
  </auto-qos>  
</nas>
```

### Parameters

**cos**

Specifies the CoS value. The value can range from 0 through 7



## nas/auto-qos/set/dscp

Configures DSCP value for Network Attached Storage.

### Usage

```
<nas xmlns="urn:brocade.com:mgmt:brocade-qos">  
  <auto-qos>  
    <set>  
      <dscp>30</dscp>  
    </set>  
  </auto-qos>  
</nas>
```

### Parameters

*dscp*

Specifies the DSCP value. The value can range from 0 through 63.

## nas/server-ip/{ip-address}/vrf

Configures network attached storage server with Virtual Routing and Forwarding (VRF).

### Usage

```
<nas xmlns="urn:brocade.com:mgmt:brocade-qos">  
  <server-ip>  
    <server-ip>1.1.1.1/32</server-ip>  
    <vrf>  
      <vrf-name>mgmt-vrf</vrf-name>  
    </vrf>  
  </server-ip>  
</nas>
```

### Parameters

- server-ip*  
Specifies the IP address
- vrf-name*  
Specifies the VRF name

## nas/server-ip/{ip-address}/vlan

Configures network attached storage server with Virtual LAN (VLAN).

### Usage

```
<nas xmlns="urn:brocade.com:mgmt:brocade-qos">
  <server-ip>
    <server-ip>2.2.2.2/32</server-ip>
    <vlan>
      <vlan-number>1</vlan-number>
    </vlan>
  </server-ip>
</nas>
```

### Parameters

*server-ip*

Specifies the IP address

*vlan-number*

Specifies the VLAN number

## nsx-controller

Configures NSX controller.

### Usage

```
<nsx-controller xmlns="urn:brocade.com:mgmt:brocade-tunnels">  
  <name>nsx21</name>  
</nsx-controller>
```

### Parameters

*name*

Specifies the name of the NSX controller

## nsx-controller/{controller-name}/activate

Activates an NSX controller connection profile, thereby initiating the connection between the NSX controller and the VCS fabric.

### Usage

```
<nsx-controller xmlns="urn:brocade.com:mgmt:brocade-tunnels">  
  <name>controller1</name>  
  <activate></activate>  
</nsx-controller>
```

### Parameters

*name*

Specifies the NSX controller name

**activate**

Activates an NSX controller connection profile

## nsx-controller/{controller-name}/ip/address

Configures IP address for NSX controller.

### Usage

```
<nsx-controller xmlns="urn:brocade.com:mgmt:brocade-tunnels">  
  <name>nsx21</name>  
  <connection-addr>  
    <address>1.1.1.1</address>  
    <port>6552</port>  
    <method>ssl</method>  
  </connection-addr>  
</nsx-controller>
```

### Parameters

*name*

Specifies NSX controller name

*address*

Specifies IP address of NSX controller

*port*

Specifies NSX controller port number

*method*

Specifies the connection method

## nsx-controller/{controller-name}/reconnect-interval

Configures the reconnect interval time.

### Usage

```
<nsx-controller xmlns="urn:brocade.com:mgmt:brocade-tunnels">  
  <name>nsx21</name>  
  <reconnect-interval>15</reconnect-interval>  
</nsx-controller>
```

### Parameters

*name*

Specifies the name of the NSX controller

*reconnect-interval*

Specifies the time interval in seconds. The value can range from 1 through 1000. The default value is 10 seconds

# ntp/authentication-key

Configures NTP authentication key parameters.

## Usage

```
<ntp xmlns="urn:brocade.com:mgmt:brocade-ntp">
  <authentication-key>
    <keyid>650</keyid>
    <sha1>sha1</sha1>
    <encryption-level>0</encryption-level>
  </authentication-key>
</ntp>
```

## Parameters

### *keyid*

Specifies authentication key ID. The value can range from 65535

### *encryption-type*

Specifies the encryption type. Two types of encryption are allowed:

#### **sha1**

SHA1 encryption

#### **md5**

MD5 encryption

### *encryption-level*

Specifies the encryption level. There are two encryption levels

#### **0**

Stores the key in clear-text format

## History

| Release version | History                              |
|-----------------|--------------------------------------|
|                 | This Netconf call was introduced.    |
|                 | This Netconf call was modified to... |



# ntp/server

Configures Network Time Protocol (NTP) server IP address.

## Usage

```
<ntp xmlns="urn:brocade.com:mgmt:brocade-ntp">
  <server>
    <ip>1.1.1.1</ip>
    <key>1</key>
  </server>
</ntp>
```

## Parameters

*ip*

NTP server IPv4 or IPv6 IP address

*key*

Key from the key list to be associated with the specified server. The value can range from 1 through 65535

## ntp/source-ip

Configures the source IP to be used for Network Time Protocol (NTP).

### Usage

```
<ntp xmlns="urn:brocade.com:mgmt:brocade-ntp">  
  <source-ip>chassis-ip</source-ip>  
</ntp>
```

### Parameters

*source-ip*

Specifies the source IP to be used for NTP. The following source IP can be configured

#### **chassis-ip**

Uses chassis IP as source address

#### **mm-ip**

Uses local MM IP as source address

# openflow-controller

Configures openflow controller.

## Usage

```
<openflow-controller xmlns="urn:brocade.com:mgmt:brocade-openflow">  
  <controller-name>openflow1</controller-name>  
</openflow-controller>
```

## Parameters

*controller-name*

Specifies the name of the openflow controller

## openflow-controller/{controller-name}/ip

Configures IP address for openflow controller.

### Usage

```
<openflow-controller xmlns="urn:brocade.com:mgmt:brocade-openflow">
  <controller-name>openflow1</controller-name>
  <connection-address>
    <controller-address>1.1.1.1</controller-address>
    <connection-port>60</connection-port>
  </connection-address>
</openflow-controller>
```

### Parameters

*controller-name*

OpenFlow controller name

*controller-address*

IP address of OpenFlow controller

*connection-port*

OpenFlow controller port number

# overlay-gateway

Configures overlay gateway instances.

## Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">  
  <name>ogl</name>  
</overlay-gateway>
```

## Parameters

*name*

Overlay Gateway name

## overlay-gateway/{gateway-name}/activate

Activates the Overlay Gateway instance.

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">  
  <name>ogl</name>  
  <activate></activate>  
</overlay-gateway>
```

### Parameters

*name*

Specifies the Overlay Gateway name

*activate*

Activates the overlay gateway instance

## overlay-gateway/{gateway-name}/attach/rbridge-id/add

Configures rbridges on which to setup this gateway.

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
  <name>ogl</name>
  <attach>
    <rbridge-id>
      <rb-add>1</rb-add>
    </rbridge-id>
  </attach>
</overlay-gateway>
```

### Parameters

*name*

Specifies the name of the overlay gateway

*rb-add*

Specifies the range of RBridge-ids to add

## overlay-gateway/{gateway-name}/attach/vlan

Configures VLAN attachment for this gateway.

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
  <name>og1</name>
  <attach>
    <vlan>
      <vid>1</vid>
      <mac>0011.1122.2233</mac>
    </vlan>
  </attach>
</overlay-gateway>
```

### Parameters

*vid*

Specifies the range of VLAN ids to add

*mac*

Specifies MAC address in HHHH.HHHH.HHHH format



## overlay-gateway/{gateway-name}/enable

Enables per VLAN statistics.

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
  <name>ogl</name>
  <enable>
    <statistics>
      <stats-direction>both</stats-direction>
      <vlan-action>add</vlan-action>
      <vlan-list>1</vlan-list>
    </statistics>
  </enable>
</overlay-gateway>
```

### Parameters

#### *stats-direction*

Specifies the flow direction. The flow direction can be set to any one of the following

##### **both**

Both transmitted and received packets

##### **rx**

Received packets

##### **tx**

Transmitted packets

#### *vlan-action*

Specifies the action. Two actions are allowed

##### **add**

Specifies the VLANs to add

##### **remove**

Specifies the VLANs to remove

#### *vlan-list*

Specifies the range of VLAN IDs

## overlay-gateway/{gateway-name}/ip/access-group

Configures IPv4 access-group for the Overlay Gateway.

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
  <name>ogl</name>
  <access-lists>
    <ipv4>
      <in>
        <ipv4-acl-in-name>acl4</ipv4-acl-in-name>
        <ipv4-acl-in-dir></ipv4-acl-in-dir>
      </in>
    </ipv4>
  </access-lists>
</overlay-gateway>
```

### Parameters

*ipv4-acl-in-name*

Specifies the access list name

*ipv4-acl-in-dir*

Configures IPv4 access group in ingress direction

## overlay-gateway/{gateway-name}/ip/interface/loopback

Configures Loopback interface for the Overlay Gateway

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
  <name>ogl</name>
  <ip>
    <interface>
      <loopback>
        <loopback-id>1</loopback-id>
      </loopback>
    </interface>
  </ip>
</overlay-gateway>
```

### Parameters

*loopback-id*

Specifies loopback port number

## overlay-gateway/{gateway-name}/ip/interface/ve/{ve-id}/fabric-virtual-gateway

Uses Fabric-Virtual-Gateway IP address.

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
  <name>ogl</name>
  <ip>
    <interface>
      <ve>
        <ve-id>1</ve-id>
        <fabric-virtual-gateway></fabric-virtual-gateway>
      </ve>
    </interface>
  </ip>
</overlay-gateway>
```

### Parameters

*ve-id*

Specifies VE interface number

**fabric-virtual-gateway**

Enables use of Fabric-Virtual-Gateway IP address

## overlay-gateway/{gateway-name}/ip/interface/ve/{ve-id}/vrrp-extended-group

Configures virtual router

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
  <name>ogl</name>
  <ip>
    <interface>
      <ve>
        <ve-id>1</ve-id>
        <vrrp-extended-group>1</vrrp-extended-group>
      </ve>
    </interface>
  </ip>
</overlay-gateway>
```

### Parameters

*ve-id*

Specifies VE interface number

*vrrp-extended-group*

Specifies Virtual Router Identifier. The value can range from 1 through 255

## overlay-gateway/{gateway-name}/ipv6/access-group

Configures IPv6 access-group for the Overlay Gateway.

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
  <name>ogl</name>
  <access-lists>
    <ipv6>
      <in>
        <ipv6-acl-in-name>acl12</ipv6-acl-in-name>
        <ipv6-acl-in-dir></ipv6-acl-in-dir>
      </in>
    </ipv6>
  </access-lists>
</overlay-gateway>
```

### Parameters

*ipv6-acl-in-name*

Specifies IPv6 access group name

*ipv6-acl-in-dir*

Configures IPv6 access group in ingress direction

## overlay-gateway/{gateway-name}/mac

Configures MAC access-group for the Overlay Gateway.

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
  <name>ogl</name>
  <access-lists>
    <mac>
      <in>
        <mac-acl-in-name>acl10</mac-acl-in-name>
        <mac-acl-in-dir></mac-acl-in-dir>
      </in>
    </mac>
  </access-lists>
</overlay-gateway>
```

### Parameters

*mac-acl-in-name*

Specifies the name of the MAC access list

*mac-acl-in-dir*

Configures MAC access-group in ingress direction

## overlay-gateway/{gateway-name}/map

Configures the VLAN to VNI mappings for the Overlay Gateway.

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
  <name>gateway2</name>
  <map>
    <vlan>
      <vni>
        <auto/>
      </vni>
    </vlan>
  </map>
</overlay-gateway>
```

### Parameters



## overlay-gateway/{gateway-name}/monitor

Configures SPAN for the tunnels of this gateway.

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
  <name>name1</name>
  <monitor>
    <session>1</session>
    <direction>both</direction>
    <remote-endpoint>any</remote-endpoint>
    <vlan-add-remove>add</vlan-add-remove>
    <vlan-range>5,14-17</vlan-range>
  </monitor>
</overlay-gateway>
```

### Parameters

#### *session*

Specifies session number

#### *direction*

Specifies flow direction. Flow direction can be set to the following

##### **both**

Both transmitted and received packets

##### **rx**

Received packets

##### **tx**

Transmitted packets

#### *remote-endpoint*

Specifies tunnel destination end point address. The destination end point address can be set to

<A.B.C.D>

Specifies IP address of specific tunnel end point

##### **any**

Specifies all tunnel end points

#### *vlan-add-remove*

Adds or removes target VLAN IDs

#### *vlan-range*

Specifies range of VLAN IDs to add or remove

## overlay-gateway/{gateway-name}/sflow

Configures SFLOW for the tunnels of this gateway.

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
  <name>ogl</name>
  <sflow>
    <sflow-profile-name>sflow1</sflow-profile-name>
    <sflow-remote-endpoint>any</sflow-remote-endpoint>
    <sflow-vlan-action>add</sflow-vlan-action>
    <sflow-vlan-range>100</sflow-vlan-range>
  </sflow>
</overlay-gateway>
```

### Parameters

*sflow-profile-name*

Specifies Sflow profile name

*sflow-remote-endpoint*

Specifies tunnel destination end point address. The destination end point address can be set to

*<A.B.C.D>*

Specifies IP address of specific tunnel end point

**any**

Specifies all tunnel end points

*sflow-vlan-action*

Specifies the action on target VLAN IDs. There are two action

**add**

Specifies target VLAN IDs to add

**remove**

Specifies target VLAN IDs to remove

*sflow-vlan-range*

Specified the range of VLAN IDs to add or remove

## overlay-gateway/{gateway-name}/site

Configures remote extension site.

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
  <name>ogl</name>
  <site>
    <name>site1</name>
  </site>
</overlay-gateway>
```

### Parameters

*name*  
Specifies the site name

## overlay-gateway/{gateway-name}/site/{site-name}/bfd

Creates BFD session for the tunnels to the remote site.

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
  <name>ogl</name>
  <site>
    <name>site1</name>
    <bfd>
      <params>
        <interval>
          <min-tx>110</min-tx>
          <min-rx>330</min-rx>
          <multiplier>3</multiplier>
        </interval>
      </params>
    </bfd>
  </site>
</overlay-gateway>
```

### Parameters

*name*

Specifies the site name

*min-tx*

Specifies BFD desired minimum transmit interval in milliseconds. The value can range from 100 through 30000. The default value is 100

*min-rx*

Specifies BFD desired minimum receive interval in milliseconds. The value can range from 300 through 30000. The default value is 300

*multiplier*

Specifies BFD detection time multiplier. The value can range from 3 through 50. The default value is 3

## overlay-gateway/{gateway-name}/site/{site-name}/extend

Configures Layer2 domains to be extended towards this site.

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
  <name>gateway2</name>
  <site>
    <name>sanjose</name>
    <extend>
      <vlan>
        <add>1-10</add>
      </vlan>
    </extend>
  </site>
</overlay-gateway>
```

### Parameters

*name*

Specifies site name

**add**

Specifies VLAN IDs to add

**remove**

Specifies VLAN IDs to remove

## overlay-gateway/{gateway-name}/site/{site-name}/ip

Configures tunnel destination IP address.

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
  <name>gateway2</name>
  <site>
    <name>sanjose</name>
    <tunnel-dst>
      <address>10.10.10.1</address>
    </tunnel-dst>
  </site>
</overlay-gateway>
```

### Parameters

*name*

Specifies site name

*address*

Specifies tunnel destination IP address

## overlay-gateway/{gateway-name}/site/{site-name}/mac-learning/protocol/bgp

By default, MAC address learning is enabled on VXLAN Layer 2 extension tunnels. Use this command to delegate the responsibility for MAC learning on a tunnel to the Layer 3 control-plane protocol, such as BGP EVPN.

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
  <name>overlaygateway1</name>
  <site>
    <name>site1</name>
    <mac-learning>
      <protocol>bgp</protocol>
    </mac-learning>
  </site>
</overlay-gateway>
```

### Parameters

*name*

Specifies the site name

*protocol*

Specifies control plane MAC learning protocol

**bgp**

Sets BGP-EVPN based MAC learning

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## overlay-gateway/{gateway-name}/site/{site-name}/shutdown

Disables tunnel to the remote site.

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">  
  <name>gateway2</name>  
  <site>  
    <name>sanjose</name>  
    <shutdown></shutdown>  
  </site>  
</overlay-gateway>
```

### Parameters

*name*

Specifies the name of the site

**shutdown**

Disables tunnels to the remote site



## overlay-gateway/{gateway-name}/type

Specifies whether a VXLAN overlay gateway uses NSX Controller or OpenStack integration, or Layer 2 extension.

### Usage

```
<overlay-gateway xmlns="urn:brocade.com:mgmt:brocade-tunnels">
  <name>overlaygateway1</name>
  <gw-type>hardware-vtep</gw-type>
</overlay-gateway>
```

### Parameters

*name*

Specifies the overlay gateway name

*gw-type*

Specifies the type of Overlay Gateway. There are two types of Overlay Gateway

**hardware-vtep**

Specifies NSX Controller/OpenStack integration

**layer2-extension**

Specifies Layer 2 extension

### History

| Release version | History  |
|-----------------|--|
| 7.0.0           | This Netconf call was modified to deprecate the <b>nsx</b> keyword and replace it with the <b>hardware-vtep</b> keyword, supporting both NSX Controller and OpenStack deployments. |

## ovsdb-server

Specifies an Open vSwitch Database SSL server for OpenStack deployments.

### Usage

```
<ovsdb-server xmlns="urn:brocade.com:mgmt:brocade-tunnels">  
  <name>ovsdb1</name>  
</ovsdb-server>
```

### Parameters

*name*

Specifies the name of an OVSDB SSL server

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## ovsdb-server/{server-name}/activate

Activates an Open vSwitch Database SSL server for OpenStack deployments.

### Usage

```
<ovsdb-server xmlns="urn:brocade.com:mgmt:brocade-tunnels">  
  <name>ovsdb1</name>  
  <activate></activate>  
</ovsdb-server>
```

### Parameters

*name*

Specifies the OVSDB server name

**activate**

Activates an OVSDB SSL server for OpenStack deployments

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## ovsdb-server/{server-name}/port

Specifies the port of an Open vSwitch Database SSL server to be used for OpenStack deployments.

### Usage

```
<ovsdb-server xmlns="urn:brocade.com:mgmt:brocade-tunnels">  
  <name>ovsdb1</name>  
  <port>8000</port>  
</ovsdb-server>
```

### Parameters

*name*

Specifies the OVSDB server name

*port*

Specifies the port of an Open vSwitch Database SSL server to be used for OpenStack deployments

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## password-attributes/admin-lockout

Enables lockout for admin role accounts after maximum login retry attempts failed.

### Usage

```
<password-attributes xmlns="urn:brocade.com:mgmt:brocade-aaa">  
  <admin-lockout-enable></admin-lockout-enable>  
</password-attributes>
```

### Parameters

*admin-lockout-enable*

Enables lockout for admin role

## password-attributes/character-restriction/lower

Configures restriction on minimum number of lower case alphabet.

### Usage

```
<password-attributes xmlns="urn:brocade.com:mgmt:brocade-aaa">  
  <character-restriction>  
    <lower>1</lower>  
  </character-restriction>  
</password-attributes>
```

### Parameters

*lower*

Specifies the minimum number of lower-case alphabets. The value can range from 0 through 32. The default value is 8 number of lower-case alphabets

## password-attributes/character-restriction/numeric

Configures restriction on the minimum number of numeric characters.

### Usage

```
<password-attributes xmlns="urn:brocade.com:mgmt:brocade-aaa">  
  <character-restriction>  
    <numeric>1</numeric>  
  </character-restriction>  
</password-attributes>
```

### Parameters

#### *numeric*

Specifies the minimum number of numeric characters. The value can range from 0 through 32. The default value is 0

## password-attributes/character-restriction/special-char

Configures restriction on the minimum number of special characters.

### Usage

```
<password-attributes xmlns="urn:brocade.com:mgmt:brocade-aaa">  
  <character-restriction>  
    <special-char>1</special-char>  
  </character-restriction>  
</password-attributes>
```

### Parameters

*special-char*

Specifies the minimum number of special characters. The value can range from 0 through 32 characters. The default value is 0 characters



## password-attributes/max-lockout-duration

Configures the maximum number of minutes after which the user account is unlocked.

### Usage

```
<password-attributes xmlns="urn:brocade.com:mgmt:brocade-aaa">  
  <max-lockout-duration>1</max-lockout-duration>  
</password-attributes>
```

### Parameters

#### *max-lockout-duration*

Specifies the maximum number of minutes after which the user account is unlocked. The value can range from 0 through 99999. The default value is 0

## password-attributes/max-retry

Configures the maximum number of login retries before which the user account is locked.

### Usage

```
<password-attributes xmlns="urn:brocade.com:mgmt:brocade-aaa">  
  <max-retry>4</max-retry>  
</password-attributes>
```

### Parameters

*max-retry*

Specifies the maximum number of login retries before which the user account is locked. The value can range from 0 to 16. The default number of login retries is 0.

## password-attributes/min-length

Configures the minimum length of the password.

### Usage

```
<password-attributes xmlns="urn:brocade.com:mgmt:brocade-aaa">  
  <min-length>10</min-length>  
</password-attributes>
```

### Parameters

#### *min-length*

Specifies the minimum length of the password. The value can range from 8 through 32 characters. The default length of the password is 8 characters.

## police-priority-map

Configures Policer Priority Map.

### Usage

```
<police-priority-map xmlns="urn:brocade.com:mgmt:brocade-policer">  
  <name>pollicemap1</name>  
</police-priority-map>
```

### Parameters

*name*

Specifies the name of policer priority map.

# police-priority-map/conform

Configures police priority map for conforming traffic.

## Usage

```
<police-priority-map xmlns="urn:brocade.com:mgmt:brocade-policer">
  <name>policemap1</name>
  <conform>
    <map-pri0-conform>1</map-pri0-conform>
    <map-pri1-conform>2</map-pri1-conform>
    <map-pri2-conform>1</map-pri2-conform>
    <map-pri3-conform>2</map-pri3-conform>
    <map-pri4-conform>1</map-pri4-conform>
    <map-pri5-conform>2</map-pri5-conform>
    <map-pri6-conform>1</map-pri6-conform>
    <map-pri7-conform>1</map-pri7-conform>
  </conform>
</police-priority-map>
```

## Parameters

*name*

Specifies the name of the policer priority map name

*map-pri0-conform*

0 - 7 priority map value

## police-priority-map/exceed

Configures policer priority map for exceeding traffic.

### Usage

```
<police-priority-map xmlns="urn:brocade.com:mgmt:brocade-policer">
  <name>policemap1</name>
  <exceed>
    <map-pri0-exceed>2</map-pri0-exceed>
    <map-pri1-exceed>1</map-pri1-exceed>
    <map-pri2-exceed>2</map-pri2-exceed>
    <map-pri3-exceed>1</map-pri3-exceed>
    <map-pri4-exceed>2</map-pri4-exceed>
    <map-pri5-exceed>1</map-pri5-exceed>
    <map-pri6-exceed>2</map-pri6-exceed>
    <map-pri7-exceed>3</map-pri7-exceed>
  </exceed>
</police-priority-map>
```

### Parameters

*name*

Specifies the name of the police priority map

*map-pri0-exceed*

0 - 7 priority map value

# policy-map

Configures policy map.

## Usage

```
<policy-map xmlns="urn:brocade.com:mgmt:brocade-policer">  
  <po-name>polycymap1</po-name>  
</policy-map>
```

## Parameters

*po-name*

Specifies policy map name

## policy-map/{map-name}/class

Configures policy map class.

### Usage

```
<policy-map xmlns="urn:brocade.com:mgmt:brocade-policer">  
  <po-name>policymap1</po-name>  
  <class>  
    <cl-name>classmap1</cl-name>  
  </class>  
</policy-map>
```

### Parameters

- po-name*  
Specifies policy map name
- cl-name*  
Specifies class map name



## policy-map/{map-name}/class/{class-name}/map/cos-mutation

Specifies the mutation-map to be used on the port.

### Usage

```
<policy-map xmlns="urn:brocade.com:mgmt:brocade-policer">
  <po-name>polycymap1</po-name>
  <class>
    <cl-name>default</cl-name>
    <map>
      <cos-mutation>map1</cos-mutation>
    </map>
  </class>
</policy-map>
```

### Parameters

*po-name*

Specifies policy map name

*cl-name*

Specifies class map name

*cos-mutation*

Specifies the user-defined map-name

## policy-map/{map-name}/class/{class-name}/map/dscp-mutation

Specifies the dscp-mutation mutation-map to be used on the port.

### Usage

```
<policy-map xmlns="urn:brocade.com:mgmt:brocade-policer">  
  <po-name>policymap1</po-name>  
  <class>  
    <cl-name>default</cl-name>  
    <map>  
      <dscp-mutation>map4</dscp-mutation>  
    </map>  
  </class>  
</policy-map>
```

### Parameters

*po-name*

Specifies policy map name

*cl-name*

Specifies class map name

*dscp-mutation*

Specifies the user-defined map-name

## policy-map/{map-name}/class/{class-name}/map/sflow

Adds the sFlow profile name as an action to the policy map.

### Usage

```
<policy-map xmlns="urn:brocade.com:mgmt:brocade-policer">
  <po-name>pmap1</po-name>
  <class>
    <cl-name>default</cl-name>
    <map>
      <sflow>map1</sflow>
    </map>
  </class>
</policy-map>
```

### Parameters

*po-name*

Specifies policy map name

*cl-name*

Specifies class map name

*sflow*

Specifies the name of the sFlow profile to be added

## policy-map/{map-name}/class/{class-name}/police

Configures policy map class police instance.

### Usage

```
<policy-map xmlns="urn:brocade.com:mgmt:brocade-policer">
  <po-name>policymap1</po-name>
  <class>
    <cl-name>classmap1</cl-name>
    <police>
      <cir>50000</cir>
      <cbs>1500</cbs>
      <eir>2000</eir>
      <conform-set-prec>1</conform-set-prec>
      <conform-set-tc>2</conform-set-tc>
      <exceed-set-dscp>15</exceed-set-dscp>
      <exceed-set-tc>2</exceed-set-tc>
    </police>
  </class>
</policy-map>
```

### Parameters

*po-name*

Specifies policy map name

*cl-name*

Specifies class map name

*cir*

Specifies committed information rate. The value can range from 40000 through 100000000000 cir bits per second

*cbs*

Specifies committed burst size. The value can range from 1250 through 12500000000

*eir*

Specifies exceeded information rate. The value can range from 0 through 100000000000

*conform-set-prec*

Specifies IP precedence value for conformant traffic. The value can range from 0 through 7

*conform-set-tc*

Specifies traffic class value for conformant traffic. The value can range from 0 through 7

*exceed-set-dscp*

Specifies DSCP priority for exceeded traffic. The value can range from 0 through 63

*exceed-set-tc*

Specifies traffic class value for exceeded traffic. The value can range from 0 through 7

## policy-map/{map-name}/class/{class-name}/scheduler

Specifies the scheduling attributes along with the TC shape rate.

### Usage

```
<policy-map xmlns="urn:brocade.com:mgmt:brocade-policer">
  <po-name>polycymap1</po-name>
  <class>
    <cl-name>default</cl-name>
    <scheduler>
      <strict-priority>
        <priority-number>0</priority-number>
        <scheduler-type>dwrr</scheduler-type>
        <dwrr-traffic-class0>10</dwrr-traffic-class0>
        <dwrr-traffic-class1>15</dwrr-traffic-class1>
        <dwrr-traffic-class2>10</dwrr-traffic-class2>
        <dwrr-traffic-class3>15</dwrr-traffic-class3>
        <dwrr-traffic-class4>10</dwrr-traffic-class4>
        <dwrr-traffic-class5>15</dwrr-traffic-class5>
        <dwrr-traffic-class6>10</dwrr-traffic-class6>
        <dwrr-traffic-class-last>15</dwrr-traffic-class-last>
      </strict-priority>
    </scheduler>
  </class>
</policy-map>
```

### Parameters

*po-name*

Specifies policy map name

*cl-name*

Specifies class map name

## policy-map/{map-name}/class/{class-name}/shape

Specifies the shaping rate for a port to smooth out the traffic egressing an interface

### Usage

```
<policy-map xmlns="urn:brocade.com:mgmt:brocade-policer">
  <po-name>policymap1</po-name>
  <class>
    <cl-name>default</cl-name>
    <shape>
      <shaping_rate>30000</shaping_rate>
    </shape>
  </class>
</policy-map>
```

### Parameters

*po-name*

Specifies policy map name

*cl-name*

Specifies class map name

*shaping\_rate*

Specifies the speed for the shape rate in Kbps. The value can range from 28000 to the top speed on the interface

# port-channel-redundancy-group

Configures the list of port-channel redundancy groups.

## Usage

```
<port-channel-redundancy-group xmlns="urn:brocade.com:mgmt:brocade-lag">  
  <group-id>5</group-id>  
</port-channel-redundancy-group>
```

## Parameters

*group-id*

Specifies port channel redundancy group number. The number can range from 1 through 255

## port-channel-redundancy-group/{group-id}/activate

Activates the port-channel redundancy group.

### Usage

```
<port-channel-redundancy-group xmlns="urn:brocade.com:mgmt:brocade-lag">  
  <group-id>27</group-id>  
  <activate></activate>  
</port-channel-redundancy-group>
```

### Parameters

*group-id*

Specifies the port channel redundancy group ID

**activate**

Activates the port-channel redundancy group



## port-channel-redundancy-group/{group-id}/port-channel

Configures the list of port channels.

### Usage

```
<port-channel-redundancy-group xmlns="urn:brocade.com:mgmt:brocade-lag">
  <group-id>5</group-id>
  <port-channel>
    <name>5</name>
    <port-channel-active></port-channel-active>
  </port-channel>
</port-channel-redundancy-group>
```

### Parameters

*name*

Specifies port channel interface number. The value can range from 1 through 6144

*port-channel-active*

Selects port channel as active in port channel redundancy group

## port-profile

Configures automatic port profile.

### Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">  
  <name>portprofile1</name>  
</port-profile>
```

### Parameters

*name*

Specifies the port profile name

## port-profile/{profile-name}/allow/non-profiled-macs

Specifies whether non-profiled MAC addresses on the profiled port are dropped.

### Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
  <name>default</name>
  <allow>
    <nonprofiledmacs></nonprofiledmacs>
  </allow>
</port-profile>
```

### Parameters

*name*

Specifies the port-profile name

*nonprofiledmacs*

Specifies whether non-profiled MAC addresses on the profiled port are dropped

## port-profile/{profile-name}/fcoe-profile

Configures FCoE profile.

### Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">  
  <name>profile5</name>  
  <fcoe-profile></fcoe-profile>  
</port-profile>
```

### Parameters

*name*

Specifies the name of the port profile

**fcoe-profile**

Enables FCoE profile configuration

## port-profile/{profile-name}/fcoe-profile/fcoeport

Configures the port to be an FCoE port.

### Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
  <name>portprofile1</name>
  <fcoe-profile>
    <fcoeport>
      <fcoe-map-name>SanA</fcoe-map-name>
    </fcoeport>
  </fcoe-profile>
</port-profile>
```

### Parameters

*name*

Specifies the port profile name

*fcoe-map-name*

Specifies the FCoE Fabric map name

## port-profile/{profile-name}/qos-profile

Configures QoS profile.

### Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">  
  <name>portprofile1</name>  
  <qos-profile></qos-profile>  
</port-profile>
```

### Parameters

*name*

Specifies the port profile name

*qos-profile*

Specifies QoS profile name

## port-profile/{profile-name}/qos-profile/cee

Configures QoS CEE map.

### Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">  
  <name>portprofile1</name>  
  <qos-profile>  
    <cee>default</cee>  
  </qos-profile>  
</port-profile>
```

### Parameters

*name*

Specifies the port profile name

*cee*

Specifies the CEE map name

## port-profile/{profile-name}/qos-profile/qos/cos

Configures default Class of Service (CoS).

### Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
  <name>profile5</name>
  <qos-profile>
    <qos>
      <cos>1</cos>
    </qos>
  </qos-profile>
</port-profile>
```

### Parameters

*name*

Specifies the port profile name

*cos*

Specifies default CoS value. The value can range from 0 through 7



## port-profile/{profile-name}/qos-profile/qos/cos-mutation

Configures CoS-to-CoS mutation

### Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
  <name>profile5</name>
  <qos-profile>
    <qos>
      <cos-mutation>map1</cos-mutation>
    </qos>
  </qos-profile>
</port-profile>
```

### Parameters

*name*

Specifies port profile name

*cos-mutation*

## port-profile/{profile-name}/qos-profile/qos/cos-traffic-class

Configures CoS-toTraffic class map.

### Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
  <name>profile5</name>
  <qos-profile>
    <qos>
      <cos-traffic-class>map2</cos-traffic-class>
    </qos>
  </qos-profile>
</port-profile>
```

### Parameters

*name*

Specifies port profile name

*cos-traffic-class*

## port-profile/{profile-name}/qos-profile/qos/flowcontrol/pfc

Configures QoS priority based Flow Control.

### Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
  <name>vml-port-profile</name>
  <qos-profile>
    <qos>
      <flowcontrol>
        <pfc>
          <pfc-cos>1</pfc-cos>
          <pfc-tx>on</pfc-tx>
          <pfc-rx>on</pfc-rx>
        </pfc>
      </flowcontrol>
    </qos>
  </qos-profile>
</port-profile>
```

### Parameters

*name*

Specifies the port-profile name

*pfc-cos*

Specifies the CoS value

*pfc-tx*

Specifies pause generation

**on**

Enables pause generation

**off**

Disables pause generation

*pfc-rx*

Specifies pause reception

**on**

Enables pause reception

**off**

Disables pause reception

## port-profile/{profile-name}/qos-profile/qos/flowcontrol/tx

Configures pause generation.

### Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
  <name>profile1</name>
  <qos-profile>
    <qos>
      <flowcontrol>
        <flowcontrolglobal>
          <tx>on</tx>
          <rx>on</rx>
        </flowcontrolglobal>
      </flowcontrol>
    </qos>
  </qos-profile>
</port-profile>
```

### Parameters

*name*

Specifies the port-profile name

*tx*

Specifies pause generation

**on**

Pause generation enabled

**off**

Pause generation disables

*rx*

Specifies pause reception

**on**

Pause reception enabled

**off**

Pause reception disabled

## port-profile/{profile-name}/qos-profile/qos/trust

Configures QoS trust.

### Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
  <name>vml-port-profile</name>
  <qos-profile>
    <cee>default</cee>
    <qos>
      <cos>7</cos>
      <trust>
        <trust-cos></trust-cos>
      </trust>
    </qos>
  </qos-profile>
</port-profile>
```

### Parameters

*name*

Specifies the port-profile name

*cee*

Specifies the CEE name

*trust-cos*

Enables trust L2 field in incoming packets for deriving internal traffic class

## port-profile/{profile-name}/security-profile/ip

Configures IP parameters for security profile.

### Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
  <name>portprofile1</name>
  <security-profile>
    <ip>
      <access-group>
        <ipv4-access-group-name>acl1</ipv4-access-group-name>
        <ipv4-in></ipv4-in>
      </access-group>
    </ip>
  </security-profile>
</port-profile>
```

### Parameters

- ipv4-access-group-name*  
Specifies IPv4 access list name
- ipv4-in*  
Configures ingress direction

## port-profile/{profile-name}/security-profile/ipv6

Configure IPv6 parameters for security profile.

### Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
  <name>portprofile1</name>
  <security-profile>
    <ipv6>
      <access-group>
        <ipv6-access-group-name>acl12</ipv6-access-group-name>
        <ipv6-in></ipv6-in>
      </access-group>
    </ipv6>
  </security-profile>
</port-profile>
```

### Parameters

*ipv6-access-group-name*

Specifies IPv6 access list name

*ipv6-in*

Configures ingress direction

## port-profile/{profile-name}/security-profile/mac

Configures MAC parameters for security profile.

### Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
  <name>portprofile1</name>
  <security-profile>
    <mac>
      <access-group>
        <access-group-name>acl10</access-group-name>
        <in></in>
      </access-group>
    </mac>
  </security-profile>
</port-profile>
```

### Parameters

*access-group-name*

Specifies MAC access list

**in**

Configures ingress direction



## port-profile/{profile-name}/static

Associates VM MAC statically.

### Usage

```
<port-profile-global xmlns="urn:brocade.com:mgmt:brocade-port-profile">
  <port-profile>
    <name>vml-port-profile</name>
    <static>
      <mac-address>0050.56bf:0001</mac-address>
    </static>
  </port-profile>
</port-profile-global>
```

### Parameters

*name*

Specifies port profile name

*mac-address*

Specifies MAC address in HHHH.HHHH.HHHH format

## port-profile/{profile-name}/vlan-profile

Configures VLAN profile.

### Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">  
  <name>portprofile1</name>  
  <vlan-profile></vlan-profile>  
</port-profile>
```

### Parameters

*name*

Specifies port profile name

**vlan-profile**

Enables VLAN profile configuration

## port-profile/{profile-name}/vlan-profile/switchport

Configures the switching characteristics of the Layer2 interface.

### Usage

```
<port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile">
  <name>profile1</name>
  <vlan-profile>
    <switchport-basic>
      <basic></basic>
    </switchport-basic>
    <switchport>
      <mode>
        <vlan-mode>access</vlan-mode>
      </mode>
      <access>
        <vlan>
          <name>1</name>
        </vlan>
      </access>
    </switchport>
  </vlan-profile>
</port-profile>
```

### Parameters

*name*

Specifies the port-profile name

*vlan-mode*

Specifies the mode

**access**

Sets the Layer2 interface as Access

**mode**

Sets mode of the Layer2 interface

**trunk**

Sets the Layer2 interface as trunk

*vlan name*

Specifies the VLAN ID

## port-profile-domain

Defines a port profile domain.

### Usage

```
<port-profile-domain xmlns="urn:brocade.com:mgmt:brocade-port-profile">  
  <port-profile-domain-name>domain1</port-profile-domain-name>  
</port-profile-domain>
```

### Parameters

*port-profile-domain-name*

Specifies the name of the port profile domain

## port-profile-domain/{domain-name}/port-profile

Adds a port profile to the port-profile-domain.

### Usage

```
<port-profile-domain xmlns="urn:brocade.com:mgmt:brocade-port-profile">
  <port-profile-domain-name>domain1</port-profile-domain-name>
  <profile>
    <profile-name>UpgradedVlanProfile</profile-name>
  </profile>
</port-profile-domain>
```

### Parameters

- port-profile-domain-name*  
Specifies the port profile domain name
- profile-name*  
Specifies the port profile name

# preprovision

Configures preprovision profile.

## Usage

```
<preprovision xmlns="urn:brocade.com:mgmt:brocade-preprovision">  
  <rbridge-id>  
    <rbridge-id>3</rbridge-id>  
    <wwn>11:11:11:11:11:11:11:15</wwn>  
  </rbridge-id>  
</preprovision>
```

## Parameters

*rbridge-id*

Specifies unique identifier for the switch. The value can range from 1 to 239

*wwn*

Specifies the World Wide Name (WWN). A WWN is a 64 bit address to uniquely identify each entity within a Fibre Channel fabric

# protocol/cdp

Configures Cisco Discovery Protocol (CDP).

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <cdp xmlns="urn:brocade.com:mgmt:brocade-cdp"></cdp>  
</protocol>
```

## Parameters

### cdp

Enables Cisco Discovery Protocol

## protocol/edge-loop-detection/hello-interval

Configures hello interval limit for edge-loop-detection protocol.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <edge-loop-detection xmlns="urn:brocade.com:mgmt:brocade-eld">  
    <hello-interval>1500</hello-interval>  
  </edge-loop-detection>  
</protocol>
```

### Parameters

#### *hello-interval*

Specifies hello interval limit. The interval can range from 100 through 5000 milliseconds. The default hello interval is set to 1000 milliseconds



# protocol/edge-loop-detection/mac-refresh

Configures refresh time for MAC.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <edge-loop-detection xmlns="urn:brocade.com:mgmt:brocade-eld">
    <mac-refresh-time-config>
      <mac-refresh-time>65</mac-refresh-time>
      <mac-refresh-type>all</mac-refresh-type>
    </mac-refresh-time-config>
  </edge-loop-detection>
</protocol>
```

## Parameters

### *mac-refresh-time*

Specifies refresh time for MAC. The value can range from 60 through 300 seconds

### *mac-refresh-type*

Specifies the refresh type

#### **all**

Clean dynamic MAC(s) for entire cluster

#### **port**

Clean dynamic MAC(s) for partner port at the other end of the loop

## protocol/edge-loop-detection/pdu-rx-limit

Configures bpdu-rx-limit

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <edge-loop-detection xmlns="urn:brocade.com:mgmt:brocade-eld">  
    <pdu-rx-limit>2</pdu-rx-limit>  
  </edge-loop-detection>  
</protocol>
```

### Parameters

*pdu-rx-limit*

Specifies bpdu-rx-limit. The value can range from 1 through 5. The default value is 1

## protocol/edge-loop-detection/shutdown-time

Configures shutdown-time-limit for edge loop detection protocol.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <edge-loop-detection xmlns="urn:brocade.com:mgmt:brocade-eld">  
    <shutdown-time>10</shutdown-time>  
  </edge-loop-detection>  
</protocol>
```

### Parameters

#### *shutdown-time*

Specifies shutdown time limit. The value can range from 0 through 1440 minutes. The default value is 0

## protocol/lldp/advertise/dcbx-fcoe-app-tlv

Enables IEEE data centre bridging exchange FCoE Application TLV.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">  
    <advertise>  
      <dcbx-fcoe-app-tlv></dcbx-fcoe-app-tlv>  
    </advertise>  
  </lldp>  
</protocol>
```

### Parameters

#### **dcbx-fcoe-app-tlv**

Enables IEEE data centre bridging exchange FCoE Application TLV

## protocol/lldp/advertise/dcbx-fcoe-logical-link-tlv

Enables IEEE data centre bridging exchange FCoE logical link TLV.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
    <advertise>
      <dcbx-fcoe-logical-link-tlv></dcbx-fcoe-logical-link-tlv>
    </advertise>
  </lldp>
</protocol>
```

### Parameters

#### **dcbx-fcoe-logical-link-tlv**

Enables IEEE data centre bridging exchange FCoE logical link TLV

## protocol/lldp/advertise/dcbx-iscsi-app-tlv

Enables IEEE data centre bridging exchange iSCSI application TLV.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">  
    <advertise>  
      <dcbx-iscsi-app-tlv></dcbx-iscsi-app-tlv>  
    </advertise>  
  </lldp>  
</protocol>
```

### Parameters

#### **dcbx-iscsi-app-tlv**

Enables IEEE data centre bridging exchange iSCSI application TLV

## protocol/lldp/advertise/dcbx-tlv

Enables IEEE data centre bridging exchange TLV.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
    <advertise>
      <dcbx-tlv></dcbx-tlv>
    </advertise>
  </lldp>
</protocol>
```

### Parameters

#### **dcbx-tlv**

Enables IEEE data centre bridging exchange TLV

## protocol/lldp/advertise/dot1-tlv

Enables IEEE 802.1 organizationally specific TLV.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">  
    <advertise>  
      <dot1-tlv></dot1-tlv>  
    </advertise>  
  </lldp>  
</protocol>
```

### Parameters

#### dot1-tlv

Enables IEEE 802.1 organizationally specific TLV



## protocol/lldp/advertise/dot3-tlv

Enables IEEE 802.3 organizationally specific TLV.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">  
    <advertise>  
      <dot3-tlv></dot3-tlv>  
    </advertise>  
  </lldp>  
</protocol>
```

### Parameters

#### **dot3-tlv**

Enables IEEE 802.3 organizationally specific TLV

## protocol/lldp/advertise/optional-tlv

Enables the optional TLVs.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
    <advertise>
      <optional-tlv>
        <management-address></management-address>
        <port-description></port-description>
        <system-capabilities></system-capabilities>
        <adv-tlv-system-description></adv-tlv-system-description>
        <adv-tlv-system-name></adv-tlv-system-name>
      </optional-tlv>
    </advertise>
  </lldp>
</protocol>
```

### Parameters

**management-address**

Enables management address TLV

**port-description**

Enables port description TLV

**system-capabilities**

Enables system capabilities TLV

*adv-tlv-system-description*

Specifies system description

*adv-tlv-system-name*

Specifies system name

## protocol/lldp/description

Configures user description for LLDP.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">  
    <description>lldpconfig</description>  
  </lldp>  
</protocol>
```

### Parameters

*description*

Specifies user description for LLDP

## protocol/lldp/disable

Disable LLDP configuration.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">  
    <disable></disable>  
  </lldp>  
</protocol>
```

### Parameters

#### **disable**

Disables LLDP configuration

# protocol/lldp/hello

Configures the hello transmit interval.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">  
    <hello>35</hello>  
  </lldp>  
</protocol>
```

## Parameters

*hello*

Specifies the hello transmit interval. The value can range from 4 through 180 seconds

## protocol/lldp/iscsi-priority

Configures the Ethernet priority to advertise for iSCSI.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">  
    <iscsi-priority>3</iscsi-priority>  
  </lldp>  
</protocol>
```

### Parameters

*iscsi-priority*

Specifies the iSCSI Ethernet priority value. The value can range from 0 through 7

# protocol/lldp/mode

Configures the LLDP mode.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">  
    <mode>rx</mode>  
  </lldp>  
</protocol>
```

## Parameters

*mode*

Specifies the LLDP mode

**rx**

LLDP receive only mode

**tx**

LLDP transmit only mode

## protocol/lldp/multiplier

Configures the timeout multiplier.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">  
    <multiplier>3</multiplier>  
  </lldp>  
</protocol>
```

### Parameters

*multiplier*

Specifies the timeout multiplier value. The value can range from 2 through 10



## protocol/lldp/profile/{profile-name}/advertise

Applies a Link Layer Discovery Protocol (LLDP) profile to an interface.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
    <profile>
      <profile-name>profile1</profile-name>
      <advertise>
        <dcbx-tlv></dcbx-tlv>
      </advertise>
    </profile>
  </lldp>
</protocol>
```

### Parameters

#### *profile-name*

Specifies the profile name

#### *advertise*

Specifies the advertise TLV configuration

##### **dcbx-fcoe-app-tlv**

Advertises application Type, Length, Values (TLVs) to ensure interoperability of traffic over the Data Center Bridging eXchange protocol (DCBX), which runs over LLDP to negotiate an FCoE application TLV

##### **dcbx-fcoe-logical-link-tlv**

Advertises to any attached device the FCoE status of the logical link

##### **dcbx-iscsi-app-tlv**

Advertises the iSCSI traffic configuration parameters for Type, Length, Values (TLV) values

##### **dcbx-tlv**

Advertises to any attached device mandatory Data Center Bridging eXchange protocol (DCBX) Type, Length, Values (TLV) values

##### **dot1-tlv**

Advertises to any attached device IEEE 802.1 organizationally specific Type, Length, Values (TLV) values

##### **dot3-tlv**

Advertises to any attached device IEEE 802.3 organizationally specific Type, Length, Values (TLV) values

##### **optional-tlv**

Advertises the optional Type, Length, and Values (TLV) values

## protocol/lldp/profile/{profile-name}/hello

Sets the interval between LLDP hello messages.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
    <profile>
      <profile-name>profile1</profile-name>
      <hello>100</hello>
    </profile>
  </lldp>
</protocol>
```

### Parameters

*profile-name*

Specifies the profile name

*hello*

Specifies the interval between hello messages. The value can range from 4 through 180 seconds. The default interval is 30 seconds

## protocol/lldp/profile/{profile-name}/mode

Sets the LLDP mode on the switch.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
    <profile>
      <profile-name>profile1</profile-name>
      <mode>rx</mode>
    </profile>
  </lldp>
</protocol>
```

### Parameters

*profile-name*

Specifies the profile name

*mode*

Specifies the LLDP mode on the switch

**tx**

Specifies to enable only the transmit mode

**rx**

Specifies to enable only the receive mode

## protocol/lldp/profile/{profile-name}/multiplier

Sets the number of consecutive misses of hello messages before LLDP declares the neighbor as dead.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">
    <profile>
      <profile-name>profile1</profile-name>
      <multiplier>2</multiplier>
    </profile>
  </lldp>
</protocol>
```

### Parameters

*profile-name*

Specifies the profile name

*multiplier*

Specifies a multiplier value to use. The values can range from 2 through 10. The default value is 4

# protocol/lldp/system-description

Configures the system description.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">  
    <system-description>Brocade-VDX-VCS 1</system-description>  
  </lldp>  
</protocol>
```

## Parameters

*system-description*

Specifies the system description

## protocol/lldp/system-name

Configures the system name.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <lldp xmlns="urn:brocade.com:mgmt:brocade-lldp">  
    <system-name>client</system-name>  
  </lldp>  
</protocol>
```

### Parameters

*system-name*

Specifies the system-name

## protocol/spanning-tree/mstp/bridge-priority

Configures bridge priority commands for multiple spanning tree protocol.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <mstp>
      <bridge-priority>32768</bridge-priority>
    </mstp>
  </spanning-tree>
</protocol>
```

### Parameters

#### *bridge-priority*

Specifies the bridge priority. The value can range from 0 through 61440 and bridge priority must be set in increments of 4096

## protocol/spanning-tree/mstp/cisco-interoperability

Configures Cisco interoperability.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">  
    <mstp>  
      <cisco-interoperability>disable</cisco-interoperability>  
    </mstp>  
  </spanning-tree>  
</protocol>
```

### Parameters

*cisco-interoperability*

Enables or disables cisco interoperability

**disable**

Disables cisco interoperability

**enable**

Enables cisco interoperability



# protocol/spanning-tree/mstp/description

Configures spanning tree description.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">  
    <mstp>  
      <description>mstpsan</description>  
    </mstp>  
  </spanning-tree>  
</protocol>
```

## Parameters

*description*

Specifies spanning tree description

## protocol/spanning-tree/mstp/error-disable-timeout/enable

Enables timeout for the port to be enabled back.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <mstp>
      <error-disable-timeout>
        <enable></enable>
      </error-disable-timeout>
    </mstp>
  </spanning-tree>
</protocol>
```

### Parameters

#### **enable**

Enables timeout for the port to be enabled back

# protocol/spanning-tree/mstp/error-disable-timeout/interval

Configures time interval after which port will be enabled.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <mstp>
      <error-disable-timeout>
        <interval>350</interval>
      </error-disable-timeout>
    </mstp>
  </spanning-tree>
</protocol>
```

## Parameters

*interval*

Specifies time interval after which port will be enabled. The value can range from 10 through 1000000 seconds

## protocol/spanning-tree/mstp/forward-delay

Configures the forward delay time for the spanning tree.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">  
    <mstp>  
      <forward-delay>20</forward-delay>  
    </mstp>  
  </spanning-tree>  
</protocol>
```

### Parameters

#### *forward-delay*

Specifies forward delay time. The delay time can range from 4 through 30 seconds. The default delay time is set to 15 seconds

## protocol/spanning-tree/mstp/hello-time

Configures the hello time interval for the spanning tree.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <mstp>
      <hello-time>3</hello-time>
    </mstp>
  </spanning-tree>
</protocol>
```

### Parameters

#### *hello-time*

Specifies the hello time. The hello time can range from 1 through 20 seconds. The default hello time is set to 2 seconds

## protocol/spanning-tree/mstp/instance/priority

Configures bridge priority for the common instance.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <mstp>
      <instance>
        <id>1</id>
        <priority>4096</priority>
      </instance>
    </mstp>
  </spanning-tree>
</protocol>
```

### Parameters

*id*

Specifies MSTP instance Id. The value can range from 1 through 31

*priority*

Specifies the bridge priority. The value can range from 0 through 61440

# protocol/spanning-tree/mstp/instance/vlan

Configures VLAN for MSTP.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <mstp>
      <instance>
        <id>1</id>
        <vlan>1</vlan>
      </instance>
    </mstp>
  </spanning-tree>
</protocol>
```

## Parameters

- id*  
Specifies MSTP instance ID
- vlan*  
Specifies VLAN

## protocol/spanning-tree/mstp/max-age

Configures the max age for the spanning tree.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <mstp>
      <max-age>25</max-age>
    </mstp>
  </spanning-tree>
</protocol>
```

### Parameters

#### *max-age*

Specifies the maximum time to listen for root bridge in seconds. The value can range from 6 through 40 seconds. The default time is set to 20 seconds



## protocol/spanning-tree/mstp/max-hops

Configures the maximum hops the BPDU will be valid for.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <mstp>
      <max-hops>25</max-hops>
    </mstp>
  </spanning-tree>
</protocol>
```

### Parameters

#### *max-hops*

Specifies the maximum hops the BPDU will be valid for. The value can range from 1 through 40

## protocol/spanning-tree/mstp/port-channel

Controls port channel behavior for spanning tree

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <mstp>
      <port-channel>
        <path-cost>standard</path-cost>
      </port-channel>
    </mstp>
  </spanning-tree>
</protocol>
```

### Parameters

#### *path-cost*

Sets the path cost behavior

#### **custom**

Custom behavior - pathcost will change according to bandwidth

#### **standard**

Standard behavior - pathcost will not change according to bandwidth

## protocol/spanning-tree/mstp/region

Sets the MST region.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <mstp>
      <region>region1</region>
    </mstp>
  </spanning-tree>
</protocol>
```

### Parameters

*region*

Specifies the name of the region

## protocol/spanning-tree/mstp/revision

Sets the revision number.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <mstp>
      <revision>1</revision>
    </mstp>
  </spanning-tree>
</protocol>
```

### Parameters

*revision*

Specifies the revision number. The value can range from 0 through 255

# protocol/spanning-tree/mstp/shutdown

Disables the Multiple Spanning Tree Protocol (MSTP) globally.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">  
    <mstp>  
      <shutdown></shutdown>  
    </mstp>  
  </spanning-tree>  
</protocol>
```

## Parameters

### shutdown

Shuts down the spanning tree protocol

## protocol/spanning-tree/mstp/transmit-holdcount

Configures transmit hold count of the bridge.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">  
    <mstp>  
      <transmit-holdcount>7</transmit-holdcount>  
    </mstp>  
  </spanning-tree>  
</protocol>
```

### Parameters

*transmit-holdcount*

Specifies the transmit hold count. The value can range from 1 through 10

# protocol/spanning-tree/pvst/bridge-priority

Configures bridge priority for PVST Spanning-tree.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">  
    <pvst>  
      <bridge-priority>32768</bridge-priority>  
    </pvst>  
  </spanning-tree>  
</protocol>
```

## Parameters

### *bridge-priority*

Specifies the bridge priority. Valid values range from 0 through 61440 in increments of 4096.

## protocol/spanning-tree/pvst/description

Configures the PVST spanning-tree description.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">  
    <pvst>  
      <description>pvstspan</description>  
    </pvst>  
  </spanning-tree>  
</protocol>
```

### Parameters

*description*

Specifies the PVST spanning-tree description



## protocol/spanning-tree/pvst/error-disable-timeout/enable

Enables the timeout mechanism for the port to be enabled back.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <pvst>
      <error-disable-timeout>
        <enable></enable>
      </error-disable-timeout>
    </pvst>
  </spanning-tree>
</protocol>
```

### Parameters

*enable*

Enables timeout for PVST spanning tree

## protocol/spanning-tree/pvst/error-disable-timeout/interval

Configures interval after which port shall be enabled.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <pvst>
      <error-disable-timeout>
        <interval>350</interval>
      </error-disable-timeout>
    </pvst>
  </spanning-tree>
</protocol>
```

### Parameters

*interval*

Specifies the time for the interface to time out. The interval can range from 10 through 1000000 seconds. Ther default interval is 300 seconds

## protocol/spanning-tree/pvst/forward-delay

Specifies the time an interface spends in each of the listening and learning states.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <pvst>
      <forward-delay>20</forward-delay>
    </pvst>
  </spanning-tree>
</protocol>
```

### Parameters

#### *forward-delay*

Specifies the time that an interface spends in the Spanning Tree Protocol (STP) learning and listening states. Valid values range from 4 through 30 seconds. The default value is 15 seconds

## protocol/spanning-tree/pvst/hello-time

Sets the interval between the hello Bridge Protocol Data Units (BPDUs) sent on an interface.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <pvst>
      <hello-time>3</hello-time>
    </pvst>
  </spanning-tree>
</protocol>
```

### Parameters

#### *hello-time*

Specifies the time interval between the hello BPDUs sent on an interface. The value can range from 1 through 10 seconds. The default value is 2 seconds

## protocol/spanning-tree/pvst/max-age

Sets the interval time in seconds between messages that the PVST spanning tree receives from the interface.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">  
    <pvst>  
      <max-age>25</max-age>  
    </pvst>  
  </spanning-tree>  
</protocol>
```

### Parameters

#### *max-age*

Specifies the PVST Spanning Tree Protocol interface maximum age. The value can range from 6 through 40. The default value is 20 seconds

## protocol/spanning-tree/pvst/port-channel

Sets the path-cost behavior.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <pvst>
      <port-channel>
        <path-cost>standard</path-cost>
      </port-channel>
    </pvst>
  </spanning-tree>
</protocol>
```

### Parameters

#### *path-cost*

Sets the path cost behaviour

#### **custom**

Specifies to use the custom behavior, which sets the path-cost changes according to the port-channel's bandwidth.

#### **standard**

Specifies to use the standard behavior, which sets that the path-cost does not change according to port-channel's bandwidth.

## protocol/spanning-tree/pvst/shutdown

Disables the Rapid Spanning Tree Protocol (RSTP) globally.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">  
    <pvst>  
      <shutdown></shutdown>  
    </pvst>  
  </spanning-tree>  
</protocol>
```

### Parameters

#### **shutdown**

Disables the Rapid Spanning Tree Protocol (RSTP) globally

## protocol/spanning-tree/pvst/vlan/forward-delay

Configures the forward-delay for PVST spanning tree

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <pvst>
      <vlan>
        <id>1</id>
        <forward-delay>20</forward-delay>
      </vlan>
    </pvst>
  </spanning-tree>
</protocol>
```

### Parameters

#### *forward-delay*

Specifies the forward delay time in seconds. The value can range from 4 to 30 seconds. The default value is 15 seconds



# protocol/spanning-tree/pvst/vlan/hello-time

Configures the hello interval for the PVST spanning tree.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <pvst>
      <vlan>
        <id>1</id>
        <hello-time>3</hello-time>
      </vlan>
    </pvst>
  </spanning-tree>
</protocol>
```

## Parameters

*id*

Specifies the VLAN ID

*hello-time*

Specifies the hello interval. The interval can range from 4 to 30 seconds. The default value is 2 seconds

## protocol/spanning-tree/pvst/vlan/max-age

Configures the max-age for the PVST spanning tree.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <pvst>
      <vlan>
        <id>1</id>
        <max-age>25</max-age>
      </vlan>
    </pvst>
  </spanning-tree>
</protocol>
```

### Parameters

*id*

Specifies the VLAN ID

*max-age*

Specifies the max-age for the PVST spanning tree

# protocol/spanning-tree/pvst/vlan/priority

Configures the bridge priority.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <pvst>
      <vlan>
        <id>1</id>
        <priority>4096</priority>
      </vlan>
    </pvst>
  </spanning-tree>
</protocol>
```

## Parameters

*id*

Specifies the VLAN ID

*priority*

Specifies the bridge priority in increments of 4096. The value can range from

## protocol/spanning-tree/rpvst/bridge-priority

Specifies the bridge priority for the common instance.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rpvst>
      <bridge-priority>32768</bridge-priority>
    </rpvst>
  </spanning-tree>
</protocol>
```

### Parameters

#### *bridge-priority*

Specifies the bridge priority. The values can range from 0 through 61440 in increments of 4096. The default value is 32768

# protocol/spanning-tree/rpvst/description

Configures the RPVST Spanning tree description.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">  
    <rpvst>  
      <description>rpvstspan</description>  
    </rpvst>  
  </spanning-tree>  
</protocol>
```

## Parameters

*decription*

Specifies the RPVST Spanning tree description

## protocol/spanning-tree/rpvst/error-disable-timeout/enable

Enables the timer to bring the interface out of the error-disabled state.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rpvst>
      <error-disable-timeout>
        <enable></enable>
      </error-disable-timeout>
    </rpvst>
  </spanning-tree>
</protocol>
```

### Parameters

#### **enable**

Enables the timer to bring the interface out of the error-disabled state

# protocol/spanning-tree/rpvst/error-disable-timeout/interval

Configures the timeout for errors on an interface.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rpvst>
      <error-disable-timeout>
        <interval>400</interval>
      </error-disable-timeout>
    </rpvst>
  </spanning-tree>
</protocol>
```

## Parameters

*interval*

Specifies the time for the interface to time out. The value can range from 10 through 1000000 seconds. The default value is 300 seconds

## protocol/spanning-tree/rpvst/forward-delay

Specifies the time an interface spends in each of the listening and learning states.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rpvst>
      <forward-delay>20</forward-delay>
    </rpvst>
  </spanning-tree>
</protocol>
```

### Parameters

#### *forward-delay*

Specifies the time that an interface spends in the RPVST Spanning Tree Protocol (STP) learning and listening states. Valid values range from 4 through 30 seconds. The default value is 15 seconds



## protocol/spanning-tree/rpvst/hello-time

Sets the interval between the hello Bridge Protocol Data Units (BPDUs) sent on an interface.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rpvst>
      <hello-time>3</hello-time>
    </rpvst>
  </spanning-tree>
</protocol>
```

### Parameters

#### *hello-time*

Specifies the time interval between the hello BPDUs sent on an interface. The value can range from 1 through 10 seconds. The default value is 2 seconds

## protocol/spanning-tree/rpvst/max-age

Sets the interval time in seconds between messages that the spanning tree receives from the interface.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rpvst>
      <max-age>35</max-age>
    </rpvst>
  </spanning-tree>
</protocol>
```

### Parameters

#### *max-age*

Configures the Spanning Tree Protocol interface maximum age. The valid value can range from 6 through 40. The default value is 20 seconds

# protocol/spanning-tree/rpvst/port-channel

Sets the path-cost behavior.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rpvst>
      <port-channel>
        <path-cost>standard</path-cost>
      </port-channel>
    </rpvst>
  </spanning-tree>
</protocol>
```

## Parameters

### *path-cost*

Sets the path cost priority

#### **custom**

Specifies to use the custom behavior, which sets the path-cost changes according to the port-channel's bandwidth

#### **standard**

Specifies to use the standard behavior, which sets that the path-cost does not change according to port-channel's bandwidth

## protocol/spanning-tree/rpvst/shutdown

Disables the Rapid PVST(RPVST) globally.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rpvst>
      <shutdown></shutdown>
    </rpvst>
  </spanning-tree>
</protocol>
```

### Parameters

#### shutdown

Disables the Rapid PVST(RPVST) globally

## protocol/spanning-tree/rpvst/transmit-holdcount

Configures the maximum number of Bridge Protocol Data Units (BPDUs) transmitted per second for the R-PVST+.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rpvst>
      <transmit-holdcount>5</transmit-holdcount>
    </rpvst>
  </spanning-tree>
</protocol>
```

### Parameters

#### *transmit-holdcount*

Specifies the number of BPDUs than can be sent before pausing for 1 second. The value can range from 1 through 10. The default value is 6 units

## protocol/spanning-tree/rpvst/vlan/forward-delay

Configures the forward-delay for RPVST spanning tree.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rpvst>
      <vlan>
        <id>1</id>
        <forward-delay>20</forward-delay>
      </vlan>
    </rpvst>
  </spanning-tree>
</protocol>
```

### Parameters

*id*

Specifies the VLAN ID

*forward-delay*

Specifies the forward delay time in seconds. The value can range from 4 to 30 seconds.  
The default value is 15 seconds

# protocol/spanning-tree/rpvst/vlan/hello-time

Configures the hello interval for the RPVST spanning tree.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rpvst>
      <vlan>
        <id>1</id>
        <hello-time>3</hello-time>
      </vlan>
    </rpvst>
  </spanning-tree>
</protocol>
```

## Parameters

*id*

Specifies the VLAN ID

*hello-time*

Specifies the hello interval. The interval can range from 4 to 30 seconds. The default value is 2 seconds

## protocol/spanning-tree/rpvst/vlan/max-age

Configures the max-age for the RPVST spanning tree.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rpvst>
      <vlan>
        <id>1</id>
        <max-age>25</max-age>
      </vlan>
    </rpvst>
  </spanning-tree>
</protocol>
```

### Parameters

*id*

Specifies the VLAN ID

*max-age*

Specifies the max-age for the RPVST spanning tree



# protocol/spanning-tree/rpvst/vlan/priority

Configures the bridge priority.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rpvst>
      <vlan>
        <id>1</id>
        <priority>4096</priority>
      </vlan>
    </rpvst>
  </spanning-tree>
</protocol>
```

## Parameters

*id*

Specifies the VLAN ID

*priority*

Specifies the bridge priority in increments of 4096. The value can range from

## protocol/spanning-tree/rstp/bridge-priority

Specifies the bridge priority for the common instance.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">  
    <rstp>  
      <bridge-priority>32768</bridge-priority>  
    </rstp>  
  </spanning-tree>  
</protocol>
```

### Parameters

#### *bridge-priority*

Specifies the bridge priority. The values can range from 0 through 61440 in increments of 4096. The default value is 32768

## protocol/spanning-tree/rstp/description

Configures the Rapid Spanning tree (RSTP) description.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rstp>
      <description>rstpspan</description>
    </rstp>
  </spanning-tree>
</protocol>
```

### Parameters

*description*

Specifies the RPVST Spanning tree description

## protocol/spanning-tree/rstp/error-disable-timeout/enable

Enables the timer to bring the interface out of the error-disabled state.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rstp>
      <error-disable-timeout>
        <enable></enable>
      </error-disable-timeout>
    </rstp>
  </spanning-tree>
</protocol>
```

### Parameters

*enable*

Enables the timer to bring the interface out of the error-disabled state

# protocol/spanning-tree/rstp/error-disable-timeout/interval

Configures the timeout for errors on an interface.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rstp>
      <error-disable-timeout>
        <interval>500</interval>
      </error-disable-timeout>
    </rstp>
  </spanning-tree>
</protocol>
```

## Parameters

*interval*

Specifies the time for the interface to time out. The value can range from 10 through 1000000 seconds. The default value is 300 seconds

## protocol/spanning-tree/rstp/forward-delay

Specifies the time an interface spends in each of the listening and learning states.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">  
    <rstp>  
      <forward-delay>30</forward-delay>  
    </rstp>  
  </spanning-tree>  
</protocol>
```

### Parameters

#### *forward-delay*

Specifies the time that an interface spends in the RPVST Spanning Tree Protocol (STP) learning and listening states. Valid values range from 4 through 30 seconds. The default value is 15 seconds

## protocol/spanning-tree/rstp/hello-time

Sets the interval between the hello Bridge Protocol Data Units (BPDUs) sent on an interface.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rstp>
      <hello-time>4</hello-time>
    </rstp>
  </spanning-tree>
</protocol>
```

### Parameters

#### *hello-time*

Specifies the time interval between the hello BPDUs sent on an interface. The value can range from 1 through 10 seconds. The default value is 2 seconds

## protocol/spanning-tree/rstp/max-age

Sets the interval time in seconds between messages that the spanning tree receives from the interface.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rstp>
      <max-age>40</max-age>
    </rstp>
  </spanning-tree>
</protocol>
```

### Parameters

#### *max-age*

Specifies the Rapid Spanning Tree Protocol interface maximum age. The valid value can range from 6 through 40. The default value is 20 seconds



# protocol/spanning-tree/rstp/port-channel

Sets the path-cost behavior.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rpvst>
      <port-channel>
        <path-cost>standard</path-cost>
      </port-channel>
    </rpvst>
  </spanning-tree>
</protocol>
```

## Parameters

### *path-cost*

Sets the path cost priority

#### **custom**

Specifies to use the custom behavior, which sets the path-cost changes according to the port-channel's bandwidth

#### **standard**

Specifies to use the standard behavior, which sets that the path-cost does not change according to port-channel's bandwidth

## protocol/spanning-tree/rstp/shutdown

Disables the Rapid Spanning Tree Protocol (RSTP) globally.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">  
    <rstp>  
      <shutdown></shutdown>  
    </rstp>  
  </spanning-tree>  
</protocol>
```

### Parameters

#### shutdown

Disables the Rapid Spanning Tree Protocol (RSTP) globally

## protocol/spanning-tree/rstp/transmit-holdcount

Configures the maximum number of Bridge Protocol Data Units (BPDUs) transmitted per second for the RSTP.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rpvst>
      <transmit-holdcount>5</transmit-holdcount>
    </rpvst>
  </spanning-tree>
</protocol>
```

### Parameters

#### *transmit-holdcount*

Specifies the number of BPDUs than can be sent before pausing for 1 second. The value can range from 1 through 10. The default value is 6 units

## protocol/spanning-tree/stp/bridge-priority

Specifies the bridge priority for the common instance.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">  
    <stp>  
      <bridge-priority>32768</bridge-priority>  
    </stp>  
  </spanning-tree>  
</protocol>
```

### Parameters

#### *bridge-priority*

Specifies the bridge priority. The values can range from 0 through 61440 in increments of 4096. The default value is 32768

## protocol/spanning-tree/stp/description

Configures the STP Spanning tree description.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">  
    <stp>  
      <description>stpspan</description>  
    </stp>  
  </spanning-tree>  
</protocol>
```

### Parameters

*description*

Specifies the STP Spanning tree description

## protocol/spanning-tree/stp/error-disable-timeout/enable

Enables the timer to bring the interface out of the error-disabled state.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <stp>
      <error-disable-timeout>
        <enable></enable>
      </error-disable-timeout>
    </stp>
  </spanning-tree>
</protocol>
```

### Parameters

#### **enable**

Enables the timer to bring the interface out of the error-disabled state

# protocol/spanning-tree/stp/error-disable-timeout/interval

Configures the timeout for errors on an interface.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <rstp>
      <error-disable-timeout>
        <interval>550</interval>
      </error-disable-timeout>
    </rstp>
  </spanning-tree>
</protocol>
```

## Parameters

*interval*

Specifies the time for the interface to time out. The value can range from 10 through 1000000 seconds. The default value is 300 seconds

## protocol/spanning-tree/stp/forward-delay

Specifies the time an interface spends in each of the listening and learning states.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <stp>
      <forward-delay>30</forward-delay>
    </stp>
  </spanning-tree>
</protocol>
```

### Parameters

#### *forward-delay*

Specifies the time that an interface spends in the RPVST Spanning Tree Protocol (STP) learning and listening states. Valid values range from 4 through 30 seconds. The default value is 15 seconds



## protocol/spanning-tree/stp/hello-time

Sets the interval between the hello Bridge Protocol Data Units (BPDUs) sent on an interface.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <stp>
      <hello-time>5</hello-time>
    </stp>
  </spanning-tree>
</protocol>
```

### Parameters

#### *hello-time*

Specifies the time interval between the hello BPDUs sent on an interface. The value can range from 1 through 10 seconds. The default value is 2 seconds

## protocol/spanning-tree/stp/max-age

Sets the interval time in seconds between messages that the spanning tree receives from the interface.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">  
    <stp>  
      <max-age>40</max-age>  
    </stp>  
  </spanning-tree>  
</protocol>
```

### Parameters

#### *max-age*

Specifies the Rapid Spanning Tree Protocol interface maximum age. The valid value can range from 6 through 40. The default value is 20 seconds

# protocol/spanning-tree/stp/port-channel

Sets the path-cost behavior.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">
    <stp>
      <port-channel>
        <path-cost>standard</path-cost>
      </port-channel>
    </stp>
  </spanning-tree>
</protocol>
```

## Parameters

### *path-cost*

Sets the path cost priority

#### **custom**

Specifies to use the custom behavior, which sets the path-cost changes according to the port-channel's bandwidth

#### **standard**

Specifies to use the standard behavior, which sets that the path-cost does not change according to port-channel's bandwidth

## protocol/spanning-tree/stp/shutdown

Disables the STP Spanning Tree Protocol globally.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <spanning-tree xmlns="urn:brocade.com:mgmt:brocade-xstp">  
    <stp>  
      <shutdown></shutdown>  
    </stp>  
  </spanning-tree>  
</protocol>
```

### Parameters

#### shutdown

Disables the STP Spanning Tree Protocol globally

## protocol/udld

Enables unidirectional link detection (UDLD) protocol configuration mode.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <udld xmlns="urn:brocade.com:mgmt:brocade-udld"></udld>  
</protocol>
```

## protocol/udld/hello

Configures the hello transmit interval.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <udld xmlns="urn:brocade.com:mgmt:brocade-udld">  
    <hello>20</hello>  
  </udld>  
</protocol>
```

### Parameters

*hello*

Specifies the hello transmit interval. The value can range from 1 through 60 (in counts of 100 milliseconds). The default value is 5 (500 milliseconds).

# protocol/udld/multiplier

Configures the timeout multiplier for missed UDLD PDUs.

## Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <udld xmlns="urn:brocade.com:mgmt:brocade-udld">  
    <multiplier>3</multiplier>  
  </udld>  
</protocol>
```

## Parameters

### *multiplier*

Specifies a multiplier value to use. The value can range from 3 through 10. The default value is 5

## protocol/udld/shutdown

Disables the unidirectional link detection (UDLD) protocol on all ports without affecting configuration.

### Usage

```
<protocol xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <udld xmlns="urn:brocade.com:mgmt:brocade-udld">  
    <shutdown></shutdown>  
  </udld>  
</protocol>
```

### Parameters

#### **shutdown**

Disables UDLD protocol on all ports without affecting configuration



## qos/map/cos-mutation

Configures CoS-to-CoS mutation Quality of Service map.

### Usage

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos">
  <map>
    <cos-mutation>
      <name>map1</name>
      <cos0>1</cos0>
      <cos1>2</cos1>
      <cos2>1</cos2>
      <cos3>2</cos3>
      <cos4>1</cos4>
      <cos5>2</cos5>
      <cos6>1</cos6>
      <cos7>2</cos7>
    </cos-mutation>
  </map>
</qos>
```

### Parameters

*name*

Specifies cos-mutation map name

## qos/map/dscp-qos

Configures Dscp-to-CoS mutation Quality of Service map.

### Usage

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos">
  <map>
    <dscp-cos>
      <dscp-cos-map-name>map3</dscp-cos-map-name>
    </dscp-cos>
  </map>
</qos>
```

### Parameters

*dscp-cos-map-name*

Specifies Dscp-to-CoS mutation map name

## qos/map/dscp-qos/{map-name}/mark

Maps DSCP values to CoS value.

### Usage

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos">
  <map>
    <dscp-cos>
      <dscp-cos-map-name>map3</dscp-cos-map-name>
      <mark>
        <dscp-in-values>5</dscp-in-values>
        <to>1</to>
      </mark>
    </dscp-cos>
  </map>
</qos>
```

### Parameters

*dscp-cos-map-name*

Specifies Dscp-to-CoS mutation map name

*dscp-in-values*

Specifies incoming DSCP value. The value can range from 0 through 63

*to*

Specifies CoS mutation out value. The value can range from 0 through 7

## qos/map/dscp-mutation

Configures Dscp-to-Dscp mutation Quality of Service map.

### Usage

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos">
  <map>
    <dscp-mutation>
      <dscp-mutation-map-name>map4</dscp-mutation-map-name>
    </dscp-mutation>
  </map>
</qos>
```

### Parameters

*dscp-mutation-map-name*  
Specifies Dscp-to-Dscp mutation map name

## qos/map/dscp-mutation/{map-name}/mark

Maps DSCP values to outbound DSCP value.

### Usage

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos">
  <map>
    <dscp-mutation>
      <dscp-mutation-map-name>map4</dscp-mutation-map-name>
      <mark>
        <dscp-in-values>10</dscp-in-values>
        <to>2</to>
      </mark>
    </dscp-mutation>
  </map>
</qos>
```

### Parameters

*dscp-mutation-map-name*

Specifies DSCP mutation map name

*dscp-in-values*

Specifies incoming DSCP value. The value can range from 0 though 63

*to*

Specifies DSCP mutation out value. The value can range from 0 through 7

## qos/map/dscp-traffic-class

Configures DSCP traffic class.

### Usage

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos">
  <map>
    <dscp-traffic-class>
      <dscp-traffic-class-map-name>map5</dscp-traffic-class-map-name>
    </dscp-traffic-class>
  </map>
</qos>
```

### Parameters

*dscp-traffic-class-map-name*  
Specifies DSCP traffic class map name

## qos/map/dscp-traffic-class/{map-name}/mark

Maps DSCP values to traffic class value.

### Usage

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos">
  <map>
    <dscp-traffic-class>
      <dscp-traffic-class-map-name>map5</dscp-traffic-class-map-name>
      <mark>
        <dscp-in-values>15</dscp-in-values>
        <to>3</to>
      </mark>
    </dscp-traffic-class>
  </map>
</qos>
```

### Parameters

*dscp-traffic-class-map-name*

Specifies dscp traffic class name

*dscp-in-values*

Specifies incoming DSCP value. The value can range from 0 through 63

*to*

Specifies DSCP traffic class value. The value can range from 0 through 7

## qos/red-profile

Configures RED profiles.

### Usage

```
<qos xmlns="urn:brocade.com:mgmt:brocade-qos">
  <red-profile>
    <profile-id>2</profile-id>
    <min-threshold>50</min-threshold>
    <max-threshold>75</max-threshold>
    <drop-probability>10</drop-probability>
  </red-profile>
</qos>
```

### Parameters

*profile-id*

Specifies the profile ID. The value can range from 0 through 383

*min-threshold*

Specifies minimum threshold in percentage. The value can range from 0 through 100 percent

*max-threshold*

Specifies maximum threshold in percentage. The value can range from 0 through 100 percent

*drop-probability*

Specifies drop probability in percentage. The value can range from 0 through 100 percent



## qos/service-policy

Attaches input policy map.

### Usage

```
<system-qos xmlns="urn:brocade.com:mgmt:brocade-policer">
  <qos>
    <service-policy>
      <direction>in</direction>
      <policy-map-name>polycymap5</policy-map-name>
    </service-policy>
  </qos>
</system-qos>
```

### Parameters

*direction*

Specifies input policy

*policy-map-name*

Specifies QoS policy map name

## qos/service-policy/{policy-name}/attach

Configures attachments for the policy map.

### Usage

```
<system-qos xmlns="urn:brocade.com:mgmt:brocade-policer">
  <qos>
    <service-policy>
      <direction>in</direction>
      <policy-map-name>polycymap1</policy-map-name>
      <attach>
        <rbridge-id>
          <add>
            <rb-add-range>1-2</rb-add-range>
          </add>
        </rbridge-id>
      </attach>
    </service-policy>
  </qos>
</system-qos>
```

### Parameters

*direction*

Specifies input policy

*policy-map-name*

Specifies policy map name

*rb-add-range*

Adds RBridges on which the QoS policy must be activated

# radius-server

Configures a RADIUS server for AAA.

## Usage

```
<radius-server xmlns="urn:brocade.com:mgmt:brocade-aaa">
  <host>
    <hostname>1.1.1.1</hostname>
    <auth-port>1812</auth-port>
    <protocol>chap</protocol>
    <key>Yf0BKEhsc83gp+kIoGMQ/g==</key>
    <encryption-level>7</encryption-level>
    <retries>6</retries>
    <timeout>10</timeout>
  </host>
</radius-server>
```

## Parameters

### *hostname*

Specifies the domain name or the IP address of this radius server

### *auth-port*

Specifies UDP authentication port. The value can range from 1 through 65535. The default value is 1812

### *protocol*

Specifies the authentication protocol to be used. Three protocol options are available

**chap**

**pap**

**peap**

### *key*

Specifies the secret shared with this server. The secret entered overrides the default secret

### *encryption-level*

Specifies the encryption level. Encryption level can be set to

**0**

Stores the key in clear text format

**7**

Stores the key in encrypted format

### *retries*

Specifies number of retries for this server connection. The value can range from 0 through 100. The default number of retries is set to 5

### *timeout*

Specifies the wait time for this server to respond. The value can range from 1 through 60 seconds. The default value is 5 seconds

## History

| Release version | History   |
|-----------------|---|
| 7.0.0           | This Netconf call was modified the include the parameter <i>use-vrf</i> . |

## rbridge-id/{rbridge-number}/ag/counter/reliability

Configures the reliability counter for the N\_Port Monitoring feature under Access Gateway.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <ag xmlns="urn:brocade.com:mgmt:brocade-ag">  
    <counter>  
      <reliabilitycountervalue>25</reliabilitycountervalue>  
    </counter>  
  </ag>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*reliabilitycountervalue*

Specifies the reliability counter value. The value can range from 10 through 100 static change notifications (SCNs) per 5-minute period. The default value is 25 SCNs

## rbridge-id/{rbridge-number}/ag/enable

Enables Access Gateway mode on a switch as follows: Enables FC ports, configures them as N\_Ports, and then maps them to VF\_Ports.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <ag xmlns="urn:brocade.com:mgmt:brocade-ag">  
    <enable></enable>  
  </ag>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**enable**

Enables Access Gateway mode on a switch

## rbridge-id/{rbridge-number}/ag/nport/interface/ fiberchannel/map/fport/interface/fcoe

Maps VF\_Ports to N\_Ports in Access Gateway (AG) mode and removes VF\_Port to N\_Port mapping.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ag xmlns="urn:brocade.com:mgmt:brocade-ag">
    <nport-menu>
      <nport-interface>
        <nport>
          <agNPortNb>1/0/5</agNPortNb>
          <map>
            <map-fport>
              <map-fport-interface></map-fport-interface>
              <fc-port>1/2/26</fc-port>
            </map-fport>
          </map>
        </nport>
      </nport-interface>
    </nport-menu>
  </ag>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*agNPortNb*

Specifies the port

*fc-port*

Specifies the VF\_Port number

## rbridge-id/{rbridge-number}/ag/pg

Creates an N\_Port group under Access Gateway configuration mode.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <ag xmlns="urn:brocade.com:mgmt:brocade-ag">  
    <pg>  
      <pgid>0</pgid>  
    </pg>  
  </ag>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*pgid*

Specifies the numerical port group identifier. The values can range from 1 through 15. The value of the default port group is 0



## rbridge-id/{rbridge-number}/ag/pg/{pg-id}/modes

Enables operating modes for port groups for Access Gateway mode.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ag xmlns="urn:brocade.com:mgmt:brocade-ag">
    <pg>
      <pgid>0</pgid>
      <modes>lb</modes>
    </pg>
  </ag>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*pgid*

Specifies the numerical port group identifier. The values can range from 1 through 15. The value of the default port group is 0

*modes*

Specifies the mode name

**lb**

Login Balancing (LB) is the only mode that you can enable

## rbridge-id/{rbridge-number}/ag/pg/{pg-id}/nport/interface/fibrechannel

Under Access Gateway, adds or deletes N\_Ports from a port group.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ag xmlns="urn:brocade.com:mgmt:brocade-ag">
    <pg>
      <pgid>0</pgid>
      <nport-menu>
        <nport-interface>
          <nport>
            <agNPortNb>1/0/5</agNPortNb>
          </nport>
        </nport-interface>
      </nport-menu>
    </pg>
  </ag>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*pgid*

Specifies the PG ID

*agNPortNb*

Specifies the N\_Port number. N\_Ports are identified by rbridge-id/slot/N\_Port, such as 3/0/4 for RBridge 3, slot 0, and N\_Port 4

## rbridge-id/{rbridge-number}/ag/pg/{pg-id}/rename

Configures a name for a port group or renames a port group in Access Gateway mode.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ag xmlns="urn:brocade.com:mgmt:brocade-ag">
    <pg>
      <pgid>0</pgid>
      <rename>pg0</rename>
    </pg>
  </ag>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*pgid*

Specifies the numerical port group identifier. The values can range from 1 through 15. The value of the default port group is 0

*rename*

Specifies the Port group name

## rbridge-id/{rbridge-number}/ag/timeout

Configures the fabric name monitoring time-out value (TOV) for Modified Managed Fabric Name Monitoring (M-MFNM) mode under Access Gateway.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ag xmlns="urn:brocade.com:mgmt:brocade-ag">
    <timeout>
      <fnmtovalue>120</fnmtovalue>
    </timeout>
  </ag>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*fnmtovalue*

Specifies the time-out value. The value can range from 30 to 3600 seconds. The default value is 120 seconds

## rbridge-id/{rbridge-number}/arp

Configures Address Resolution Protocol (ARP) parameters.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <arp-entry xmlns="urn:brocade.com:mgmt:brocade-arp">
    <arp-ip-address>1.1.1.1</arp-ip-address>
    <mac-address-value>0011.1122.2233</mac-address-value>
    <interfacename>interface</interfacename>
    <TenGigabitEthernet>1/0/5</TenGigabitEthernet>
  </arp-entry>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*arp-ip-address*

Specifies the IP address of the ARP entry

*mac-address-value*

Specifies the MAC address in HHHH.HHHH.HHHH format

*interfacename*

Specifies the interface to use

## rbridge-id/{rbridge-number}/bfd-session-setup-delay

Configures BFD desired session setup delay.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <bfd-session-setup-delay xmlns="urn:brocade.com:mgmt:brocade-bfd">  
    <delay>10</delay>  
  </bfd-session-setup-delay>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*delay*

Specifies the BFD required time delay before establishing the session. The value can range from 5 through 600 seconds

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/bp-rate-limit/heavy/module

Configures the blade processor (bp) rate limit as heavy for one or more slots. Implementing the heavy setting—by entering this command—might reduce the amount of trapped traffic.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <bp-rate-limit xmlns="urn:brocade.com:mgmt:brocade-bprate-limit">
    <heavy>
      <module>
        <add>0</add>
      </module>
    </heavy>
  </bp-rate-limit>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*add*

Specifies the blade processor to add

## rbridge-id/{rbridge-number}/chassis/virtual-ip

Sets the IPv4 address of a switch chassis.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <chassis xmlns=""urn:brocade.com:mgmt:brocade-chassis"">  
    <virtual-ip>10.20.237.246/20</virtual-ip>  
  </chassis>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*virtual-ip*

Sets an IPv4 address in dotted-decimal notation with a CIDR prefix (mask)



## rbridge-id/{rbridge-number}/chassis/virtual-ipv6

Sets the IPv6 address of a switch chassis.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <chassis xmlns="urn:brocade.com:mgmt:brocade-chassis">  
    <virtual-ipv6>2620:100:0:fa09::f8a8/64</virtual-ipv6>  
  </chassis>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*virtual-ipv6*

Sets an IPv6 address in colon-separated hexadecimal notation with a CIDR prefix

## rbridge-id/{rbridge-number}/clock/timezone

Configures the time zone based on region and longitudinal city.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <clock xmlns="urn:brocade.com:mgmt:brocade-clock">  
    <timezone>Etc/GMT</timezone>  
  </clock>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*timezone*

Specifies the local clock time zone

## rbridge-id/{rbridge-number}/crypto/ca/trustpoint

Defines the trust point for HTTPS security configuration.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>l</rbridge-id>  
  <crypto xmlns="urn:brocade.com:mgmt:brocade-crypto">  
    <ca>  
      <trustpoint>trust1</trustpoint>  
    </ca>  
  </crypto>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*trustpoint*

Specifies the name of the trust point. The string for the name can not be left blank. The length of the string can range from 1 through 64 characters.

## rbridge-id/{rbridge-number}/crypto/ca/trustpoint/{trustpoint-name}/keypair

Associates the generated RSA/ECDSA/DSA key pair with a trust point for security protocol exchanges for applications.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <crypto xmlns="urn:brocade.com:mgmt:brocade-crypto">
    <ca>
      <trustpoint>trust1</trustpoint>
      <keypair>key_label</keypair>
    </ca>
  </crypto>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*trustpoint*

Specifies the name of the trust point. The string for the name can not be left blank. The length of the string can range from 1 through 64 characters.

*keypair*

Specifies the name of the key pair to associate with the trust point

## rbridge-id/{rbridge-number}/crypto/key

Generates an RSA/ECDSA/DSA key pair to sign or encrypt and decrypt the security payload during security protocol exchanges for applications.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <crypto xmlns="urn:brocade.com:mgmt:brocade-crypto">
    <key>
      <label>key_label</label>
      <type>rsa</type>
      <modulus>2048</modulus>
    </key>
  </crypto>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*label*

Specifies the name of the key pair

*type*

Specifies the type of the key pair

**rsa**

Generates an RSA key pair

**ecdsa**

Generates an ECDSA key pair

**dsa**

Generates a DSA key pair

*modulus*

Specifies the key size. The corresponding key sizes supported for each key type are:  
RSA: 1024 or 2048, DSA: 1024, ECDSA: 256,384, or 521

## rbridge-id/{rbridge-number}/default-config enable

Allows the switch to always reboot with its default configuration and rejoin the cluster after a reboot. The switch obtains its configuration from the principal node. Enabling this feature solves most nodesegmentation issues.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <default-config-enable></default-config-enable>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**default-config-enable**

Enables the switch to always reboot with its default configuration

## rbridge-id/{rbridge-number}/event-handler/activate

Activates an event handler on an RBridge and accesses event-handler activation mode, from which you can enter advanced configuration commands.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <activate>
    <event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler">
      <name>eventHandler1</name>
    </event-handler>
  </activate>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the event-handler profile. The value can have from 1 through 32 characters. The first character must be alphabetic

rbridge-id/{rbridge-number}/event-handler/activate/{eventhandler-name}/delay

## rbridge-id/{rbridge-number}/event-handler/activate/ {eventhandler-name}/delay

Configures the delay time that the event-handler will wait for the initial launch of the action after the trigger has been received.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <activate>
    <event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler">
      <name>eventHandler1</name>
      <delay>1</delay>
    </event-handler>
  </activate>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the event-handler profile. The value can have from 1 through 32 characters. The first character must be alphabetic

*delay*

Specifies the number of seconds from when a trigger is received until the execution of the specified action begins. The value can be 0 or a positive integer



## rbridge-id/{rbridge-number}/event-handler/activate/{eventhandler-name}/interval

Configures the time interval that the event-handler will wait between iterations of completing the previous action.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <activate>
    <event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler">
      <name>eventHandler1</name>
      <interval>0</interval>
    </event-handler>
  </activate>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the event-handler profile. The values can have from 1 through 32 characters. The first character must be alphabetic

*interval*

Specifies the number of seconds between iterations of an event-handler action, if triggered. The values can be 0 or a positive integer. The default interval is 0

## rbridge-id/{rbridge-number}/event-handler/activate/ {eventhandler-name}/iterations

Configures the number of times to launch the action after the initial trigger has been received.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <activate>  
    <event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler">  
      <name>eventHandler1</name>  
      <iterations>1</iterations>  
    </event-handler>  
  </activate>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the event-handler profile. The values can range from 1 through 32 characters. The first character must be alphabetic

*iterations*

Specifies the number of times an event-handler action is run, when triggered. The values can be any positive integer. The default value is 1

## rbridge-id/{rbridge-number}/event-handler/activate/{eventhandler-name}/run-mode

Sets the run-mode controls. Sets how the action is launched with cluster formation.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <activate>
    <event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler">
      <name>eventHandler1</name>
      <run-mode>exclusive</run-mode>
    </event-handler>
  </activate>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *name*

Specifies the name of the event-handler profile. The value can range from 1 through 32 characters. The first character must be alphabetic

#### *run-mode*

Specifies if a triggered event-handler action is run in exclusive or non-exclusive mode.

#### **exclusive**

Action will be exclusively launched and will not be interrupted by cluster formation events

#### **non-exclusive**

Action will be non- exclusively launched and cluster formation can occur simultaneously. This is the default setting

## rbridge-id/{rbridge-number}/event-handler/activate/ {eventhandler-name}/trigger-function

Trigger-function controls how multiple triggers are interrupted to launch the action.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <activate>
    <event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler">
      <name>eventHandler1</name>
      <trigger-function>AND</trigger-function>
    </event-handler>
  </activate>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the event-handler profile. The values can be from 1 through 32 characters. The first character must be alphabetic

*trigger-function*

For an implementation of an event-handler profile on an RBridge, if multiple triggers are defined for an event-handler action, specifies if the action runs only if all of the triggers occur; or if one is sufficient

**OR**

The event-handler action runs if any of the triggers occur

**AND**

The event-handler action runs only if all of the triggers occur

## rbridge-id/{rbridge-number}/event-handler/activate/{eventhandler-name}/trigger-mode

Trigger-mode controls how the action is launched with the configured event trigger.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <activate>
    <event-handler xmlns="urn:brocade.com:mgmt:brocade-event-handler">
      <name>eventHandler1</name>
      <trigger-mode>on-first-instance</trigger-mode>
    </event-handler>
  </activate>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *name*

Specifies the name of the event-handler profile. The values can be from 1 through 32 characters. The first character must be alphabetic

#### *trigger-mode*

Specifies if an event-handler action can be triggered only once or more than once. The default is each time the trigger condition occurs, the event-handler action is launched

##### **each-instance**

The event-handler action is launched on each trigger instance received

##### **on-first-instance**

As long as the switch is running, the event-handler action is launched only once. Following a switch restart, the event-handler action can be triggered again

##### **only-once**

For the duration of a switch's configuration, the event-handler action is launched only once

## rbridge-id/{rbridge-number}/evpn-instance

Configures an Ethernet Virtual Private Network (EVPN) instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">  
    <instance-name>evpn1</instance-name>  
  </evpn-instance>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*instance-name*

Specifies an EVPN instance name. The value can be up to 32 characters

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

# rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/df-delay-timer

Configures the designated forwarder (DF) delay timer.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">
    <instance-name>evpn1</instance-name>
    <df-delay-timer>4</df-delay-timer>
  </evpn-instance>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*instance-name*

Specifies an EVPN instance name. The value can be up to 32 characters

*df-delay-timer*

Specifies the time interval for which a device waits before DF election is triggered. The value can range from 3 through 10 seconds. The default value is 3 seconds

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

# rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/duplicate-mac-timer

Configures the timer interval and count for duplicate MAC detection.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">  
    <instance-name>evpn1</instance-name>  
    <duplicate-mac-timer>  
      <duplicate-mac-timer-value>10</duplicate-mac-timer-value>  
      <max-count>4</max-count>  
    </duplicate-mac-timer>  
  </evpn-instance>  
</rbridge-id>
```

## Parameters

### *rbridge-id*

Specifies the RBridge ID

### *instance-name*

Specifies an EVPN instance name. The value can be up to 32 characters

### *duplicate-mac-timer-value*

Specifies the duplicate MAC detection timer interval in seconds. The value can range from 5 through 300. The default value is 5

### *max-count*

Specifies the number of times a MAC move can be detected in the configured interval before MAC is suppressed. The value can range from 3 through 10. The default value is 3

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |



# rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/rd/ auto

Enables auto-generation of a route distinguisher (RD) for an Ethernet Virtual Private Network (EVPN) instance.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">
    <instance-name>evpn1</instance-name>
    <route-distinguisher>
      <auto></auto>
    </route-distinguisher>
  </evpn-instance>
</rbridge-id>
```

## Parameters

### *rbridge-id*

Specifies the RBridge ID

### *instance-name*

Specifies an EVPN instance name. The value can be up to 32 characters

### **auto**

Enables auto-generation of a route distinguisher (RD) for an Ethernet Virtual Private Network (EVPN) instance

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/route-target/both

Imports and exports the routes for the router-id for an Ethernet Virtual Private Network (EVPN) instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">
    <instance-name>evpn1</instance-name>
    <route-target>
      <both>
        <target-community>auto</target-community>
        <ignore-as></ignore-as>
      </both>
    </route-target>
  </evpn-instance>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*instance-name*

Specifies an EVPN instance name. The value can be up to 32 characters

*target-community*

Specifies auto-generation of the import and export route-target community attributes

*ignore-as*

Specifies that the autonomous system (AS) number be ignored

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

# rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/route-target/export

Exports the routes for the router-id for an Ethernet Virtual Private Network (EVPN) instance.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">
    <instance-name>evpn1</instance-name>
    <route-target>
      <export>
        <target-community>auto</target-community>
      </export>
    </route-target>
  </evpn-instance>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*instance-name*

Specifies an EVPN instance name. The value can be up to 32 characters

*target-community*

Specifies auto-generation of the export route-target community attribute

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/route-target/import

Imports the routes for the router-id for an Ethernet Virtual Private Network (EVPN) instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">
    <instance-name>evpn1</instance-name>
    <route-target>
      <import>
        <target-community>auto</target-community>
        <ignore-as></ignore-as>
      </import>
    </route-target>
  </evpn-instance>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*instance-name*

Specifies an EVPN instance name. The value can be up to 32 characters

*target-community*

Specifies auto-generation of the import route-target community attribute

*ignore-as*

Specifies that the autonomous system (AS) number be ignored

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/vni

Configures a VNI.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">
    <instance-name>evpn1</instance-name>
    <vni>
      <evpn-vni>
        <vni-number>1</vni-number>
      </evpn-vni>
    </vni>
  </evpn-instance>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*instance-name*

Specifies an EVPN instance name. The value can be up to 32 characters

*vni-number*

Specifies a VNI and enters VNI configuration mode. The value can range from 1 through 16777215

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/vni/{add | remove}

Adds and removes VLANS for an EVPN instance and enters VNI configuration mode.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>106</rbridge-id>
  <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">
    <instance-name>evpn1</instance-name>
    <vni>
      <vni-add>
        <add>1</add>
      </vni-add>
    </vni>
  </evpn-instance>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge iD

*instance-name*

Specifies an EVPN instance name. The value can be up to 32 characters

*add*

Adds a range of VLANs to this EVPN instance

*remove*

Removes a range of VLANs from this EVPN instance

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

# rbridge-id/{rbridge-number}/evpn-instance/{instance-name}/vni/{vni-number}/route-target

Imports or exports the routes for a virtual network identifier (VNI) under an EVPN instance.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <evpn-instance xmlns="urn:brocade.com:mgmt:brocade-bgp">
    <instance-name>myinstance</instance-name>
    <vni>
      <evpn-vni>
        <vni-number>100</vni-number>
        <route-target>
          <both>
            <target-community>10.1.1.1:1</target-community>
          </both>
        </route-target>
      </evpn-vni>
    </vni>
  </evpn-instance>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*instance-name*

Specifies an EVPN instance name. The value can be up to 32 characters

*vni-number*

Specifies a VNI and enters VNI configuration mode. The value can range from 1 through 16777215

*target-community*

Specifies the route-target attribute

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/fabric/ecmp/load-balance

Configures the list of hashing fields.

### Usage

```
<rbridge xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>2</rbridge-id>
  <fabric xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
    <ecmp>
      <ecmp-load-balance>dst-mac-vid</ecmp-load-balance>
    </ecmp>
  </fabric>
</rbridge>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *ecmp-load-balance*

Specifies the destination load-balancing

#### **dst-mac-vid**

Configures the command to use destination MAC address and VID-based load balancing

#### **src-dst-ip**

Configures the command to use source and destination IP address-based load balancing

#### **src-dst-ip-mac-vid**

Configures the command to use source and destination IP and MAC address and VID-based load balancing

#### **src-dst-ip-mac-vid-port**

Configures the command to use source and destination IP, MAC address, VID and TCP/UDP port-based load balancing

#### **src-dst-ip-port**

Configures the command to use source and destination IP and TCP/UDP portbased load balancing

#### **src-dst-mac-vid**

Configures the command to use source and destination MAC address and VIDbased load balancing

#### **src-mac-vid**

Configures the command to use source MAC address and VID-based load balancing



## rbridge-id/{rbridge-number}/fabric/ecmp/load-balance-hash-swap

Configures how to swap the input fields for load balancing.

### Usage

```
<rbridge xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>2</rbridge-id>
  <fabric xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
    <ecmp>
      <ecmp-load-balance-hash-swap>4</ecmp-load-balance-hash-swap>
    </ecmp>
  </fabric>
</rbridge>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*ecmp-load-balance-hash-swap*

Specifies the control value. The values can range from 0x0 through 0xFFFFFFFF

## rbridge-id/{rbridge-number}/fabric/login-policy

Configures Duplicate WWN login mode for a particular node or switch in a fabric.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <fabric xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
    <login-policy>
      <duplicateWWN>
        <precedence>old-login</precedence>
      </duplicateWWN>
    </login-policy>
  </fabric>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*precedence*

Specifies a login policy

**new-login**

Configures the new device to log in and clean up the old login

**old-login**

Configures the old device to retain the login and reject the new login

## rbridge-id/{rbridge-number}/fabric/port-channel

Configures the list of hashing fields for balancing the data load on port-channels.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <fabric xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
    <port-channel>
      <po-id>1</po-id>
      <vlag-load-balance>dst-mac-vid</vlag-load-balance>
    </port-channel>
  </fabric>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*po-id*

Specifies the Port-channel id

*vlag-load-balance*

Configures the command to use destination MAC address and VID-based load balancing

#### **dst-mac-vid**

Configures the command to use destination MAC address and VID-based load balancing

#### **src-dst-ip**

Configures the command to use source and destination IP address-based load balancing

#### **src-dst-ip-mac-vid**

Configures the command to use source and destination IP and MAC address and VID-based load balancing

#### **src-dst-ip-mac-vid-port**

Configures the command to use source and destination IP, MAC address, VID and TCP/UDP port-based load balancing

#### **src-dst-ip-port**

Configures the command to use source and destination IP and TCP/UDP portbased load balancing

#### **src-dst-mac-vid**

Configures the command to use source and destination MAC address and VIDbased load balancing

#### **src-mac-vid**

Configures the command to use source MAC address and VID-based load balancing

## rbridge-id/{rbridge-number}/fabric/route

Configures routing related parameters.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <fabric xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
    <route>
      <mcast>
        <priority>1</priority>
      </mcast>
    </route>
  </fabric>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*priority*

Specifies multicast routing information priority

## rbridge-id/{rbridge-number}/fcoe/fcoe-enodes

Configures the number of FCoE ENodes that are to be created on a switch.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <fcoe-config xmlns="urn:brocade.com:mgmt:brocade-fcoe">
    <fcoe-enode-fabric-map>
      <fcoe-enode-fabric-map-name>default</fcoe-enode-fabric-map-name>
    </fcoe-enode-fabric-map>
    <fcoe-max-enode>0</fcoe-max-enode>
  </fcoe-config>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*fcoe-enode-fabric-map-name*

Specifies the FCoE fabric map name. The default name is default

*fcoe-max-enode*

Specifies the number of FCoE interfaces. The value can range from 0 through 1000

## rbridge-id/{rbridge-number}/fcsp/auth/auth-type

Configures the authentication type.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <fcsp xmlns="urn:brocade.com:mgmt:brocade-fc-auth">
    <auth>
      <proto>
        <auth-type>dh-chap</auth-type>
      </proto>
    </auth>
  </fcsp>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*auth-type*

Specifies the authentication type

**dh-chap**

Authentication type is DH-CHAP

## rbridge-id/{rbridge-number}/fcsp/auth/group

Configures the DH group value

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <fcsp xmlns="urn:brocade.com:mgmt:brocade-fc-auth">
    <auth>
      <proto>
        <group>*</group>
      </proto>
    </auth>
  </fcsp>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*group*

Specifies the DH group value. This parameter sets the strength of the secret. The values can be 0, 1, 2, 3, 4 or \*. The asterisk (\*) indicates all values (0 through 4). The default value is \*

## rbridge-id/{rbridge-number}/fcsp/auth/hash

Configures the hash type used for authentication

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <fcsp xmlns="urn:brocade.com:mgmt:brocade-fc-auth">
    <auth>
      <proto>
        <hash>all</hash>
      </proto>
    </auth>
  </fcsp>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*hash*

Specifies the hash type used for authentication

**sha1**

**md5**

**all**

This is the default setting



## rbridge-id/{rbridge-number}/fcsp/auth/policy

Configures the switch authentication policy attribute.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <fcsp xmlns="urn:brocade.com:mgmt:brocade-fc-auth">
    <auth>
      <policy>
        <switch>passive</switch>
      </policy>
    </auth>
  </fcsp>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*switch*

Specifies the switch authentication policy attribute

**on**

**off**

**active**

**pasive**

The default switch policy is passive

## rbridge-id/{rbridge-number}/filter-change-update-delay

Changes the delay in the filter-change status prompt from the default.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <filter-change-update-delay xmlns="urn:brocade.com:mgmt:brocade-ip-policy">  
    <filter-delay-value>10</filter-delay-value>  
  </filter-change-update-delay>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*filter-delay-value*

Specifies the delay, in seconds, in the filter-change status prompt. The value can range from 0 through 600

## rbridge-id/{rbridge-number}/hardware-profile/kap

Optimizes hardware resources for Keep-Alive Protocol (KAP) profiles.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <hardware-profile xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <kap>
      <predefined>
        <kap_profiletype>default</kap_profiletype>
      </predefined>
    </kap>
  </hardware-profile>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*kap\_profiletype*

Optimizes hardware resources for KAP profiles, to support hitless failover for the supported protocols

**custom-profile** *name*

Specifies a custom profile

**default**

Optimizes basic support for all applications

## rbridge-id/{rbridge-number}/hardware-profile/route-table

Optimizes hardware resources for route profiles.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <hardware-profile xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <route-table>
      <predefined>
        <routing_profiletype>ipv4-max-arp</routing_profiletype>
        <routing_parameter>
          <maximum_paths>16</maximum_paths>
          <openflow_enable>off</openflow_enable>
        </routing_parameter>
      </predefined>
    </route-table>
  </hardware-profile>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *routing\_profiletype*

Optimizes hardware resources for route profiles

##### **default**

Optimizes IPv4/IPv6 resources for dual-stack operations

##### **ipv4-max-arp**

Optimizes resources for the maximum number of IPv4 ARP entries

##### **ipv4-max-route**

Optimizes resources for the maximum number of IPv4 routes

##### **ipv4-min-v6**

Optimizes resources for IPv4 routes in dual-stack configurations

##### **ipv6-max-nd**

Optimizes resources for the maximum number of IPv6 Neighbor Discovery entries

##### **ipv6-max-route**

Optimizes resources for the maximum number of IPv6 routes

#### *maximum\_paths*

Specifies 8, 16, or 32 maximum paths

#### *openflow\_enable*

Enables or disables OpenFlow support

##### **off**

Disables OpenFlow

##### **on**

Enables OpenFlow

## rbridge-id/{rbridge-number}/hardware-profile/tcam

Optimizes hardware resources for ternary content-addressable memory (TCAM) profiles.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <hardware-profile xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <tcam>
      <predefined>
        <tcam_profiletype>ipv4-v6-mcast</tcam_profiletype>
      </predefined>
    </tcam>
  </hardware-profile>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*tcam\_profiletype*

Optimizes hardware resources for TCAM profiles

**default**

Optimizes resources with basic support for all applications

**dyn-arp-insp**

Optimizes resources for dynamic ARP inspection (DAI)

**ipv4-v6-mcast**

Optimizes resources for multicast

**ipv4-v6-pbr**

Optimizes resources for IPv4 and IPv6 ACLs and policy-based routing tables

**ipv4-v6-qos**

Optimizes resources for IPv4 and IPv6 ACLs and QoS

**l2-acl-qos**

Optimizes resources for Layer 2 ACLs and QoS

**l2-ipv4-acl**

Optimizes resources for Layer 2 IPv4 ACLs

**openflow**

Optimizes for OpenFlow support

## rbridge-id/{rbridge-number}/hardware-profile/vlan-classification

Optimizes hardware resources for VLAN classification.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>5</rbridge-id>
  <hardware-profile xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <vlan-classification>
      <predefined>
        <vlan_profiletype>default</vlan_profiletype>
      </predefined>
    </vlan-classification>
  </hardware-profile>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vlan\_profiletype*

Specifies the VLAN profile type

**aggregator-basic**

Optimizes hardware resources for basic support for all applications

**aggregator-virtualfabric**

Optimizes hardware resources for aggregation nodes for Virtual Fabrics

**aggregator-vxlan-gw**

Optimizes hardware resources for aggregation nodes for VXLAN gateways

**default**

Optimizes hardware resources for basic support for all applications

**tor-virtualfabric**

Optimizes hardware resources for Top of Rack (ToR) for Virtual Fabrics

**tor-vxlan-gw**

Optimizes hardware resources for ToR for VXLAN gateways

## rbridge-id/{rbridge-number}/http/server/shutdown

Disables HTTP/HTTPS service.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <http xmlns="urn:brocade.com:mgmt:brocade-http">  
    <server>  
      <shutdown></shutdown>  
    </server>  
  </http>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**shutdown**

Disables HTTP/HTTPS service

## rbridge-id/{rbridge-number}/http/server/use-vrf

Shuts down the server on the VRF.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <http xmlns="urn:brocade.com:mgmt:brocade-http">
    <server>
      <http-vrf-cont>
        <use-vrf>
          <use-vrf-name>mgmt-vrf</use-vrf-name>
          <http-vrf-shutdown></http-vrf-shutdown>
        </use-vrf>
      </http-vrf-cont>
    </server>
  </http>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*use-vrf-name*

Specifies a user-defined VRF

*http-vrf-shutdown*

Shuts down the user-defined VRF

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |



## rbridge-id/{rbridge-number}/host-table/aging-mode

Enables conversational address-resolution protocol (ARP) and conversational neighbor discovery (ND). Such enablement reduces ARP/ND control traffic.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <host-table xmlns="urn:brocade.com:mgmt:brocade-arp">
    <aging-mode>
      <conversational></conversational>
    </aging-mode>
  </host-table>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**conversational**

Enables conversational ARP and conversational ND

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/host-table/aging-time

Specifies a non-default aging-time value for conversational ARP/ND.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <host-table xmlns="urn:brocade.com:mgmt:brocade-arp">
    <aging-time>
      <conversational-timeout>350</conversational-timeout>
    </aging-time>
  </host-table>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*conversational-timeout*

Species the aging-time value for conversational ARP/ND. The value can range from 60 through 100000 seconds. The default value is 300 seconds

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/interface/loopback

Configures a loopback interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>1</id>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/address

Configures IP address of an interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>1</id>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <ip-config>
          <address>
            <address>10.1.3.1/32</address>
          </address>
        </ip-config>
      </ip>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*address*

Specifies the IP address

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/active

Sets a specific OSPF interface to active.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <active></active>
          </ospf-interface-config>
        </interface-loopback-ospf-conf>
      </ip>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

**active**

Sets a specific OSPF interface to active

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/area

Enables OSPF on an interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <area>0</area>
          </ospf-interface-config>
        </interface-loopback-ospf-conf>
      </ip>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*area*

Specifies the area address

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/auth-change-wait-time

Configures authentication-change hold time.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <auth-change-wait-time>10</auth-change-wait-time>
          </ospf-interface-config>
        </interface-loopback-ospf-conf>
      </ip>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*auth-change-wait-time*

Specifies the time before an authentication change takes place. The values can range from 0 to 14400 seconds. The default wait time is 300 seconds

# rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/authentication-key

Configures simple password-based authentication for OSPF.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <authentication-key>
              <auth-key-table>
                <encrypttype>0</encrypttype>
                <auth-key>pass</auth-key>
              </auth-key-table>
            </authentication-key>
          </ospf-interface-config>
        </interface-loopback-ospf-conf>
      </ip>
    </loopback>
  </interface>
</rbridge-id>
```

## Parameters

### *rbridge-id*

Specifies the RBridge ID

### *id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

### *encrypttype*

Specifies the encryption type

**0**

Specifies no encryption. OSPF processes password as a plain text password

**2**

Specifies the user to provide the encrypted password, preceded by a dollar sign (\$) sign

**255**

Specifies the user to provide the encrypted password, and 255 internally maps to 2

### *auth-key*

Specifies the OSPF password



# rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/cost

Configures cost for a specific interface.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <cost>100</cost>
          </ospf-interface-config>
        </interface-loopback-ospf-conf>
      </ip>
    </loopback>
  </interface>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*cost*

Specifies the cost value. The value can range from 1 through 65535. The default cost value is 1

# rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/database-filter

Configures filters for different types of outgoing Link State Advertisements (LSAs).

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <database-filter>
              <all-out></all-out>
            </database-filter>
          </ospf-interface-config>
        </interface-loopback-ospf-conf>
      </ip>
    </loopback>
  </interface>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

### database-filter

Specifies the filter type

#### all-external

Blocks all external LSAs

#### allow-default-and-type-4

Allows default-route LSAs and Type 4 LSAs, but block all other LSAs

#### allow-default-out

Allows default-route LSAs, but block all other LSAs

#### out

Filters outgoing LSAs

#### all-out

Blocks all LSAs

#### all-summary-external

Blocks all summary (Type 3) and external (type 5) LSAs

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/dead-interval

Configures the neighbor dead interval, which is the number of seconds that a neighbor router waits for a hello packet from the device before declaring the router down.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <dead-interval>300</dead-interval>
          </ospf-interface-config>
        </interface-loopback-ospf-conf>
      </ip>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*dead-interval*

Specifies the dead interval in seconds. The default interval is 40 seconds

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/hello-interval

Configures the hello interval, which is the length of time between the transmission of hello packets that this interface sends to neighbor routers.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <hello-interval>250</hello-interval>
          </ospf-interface-config>
        </interface-loopback-ospf-conf>
      </ip>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*hello-interval*

Specifies the hello interval in seconds. The default interval is 10 seconds

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/md5-authentication/key-activation-wait-time

Configures MD5 authentication change hold time.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-
ospf">
          <ospf-interface-config>
            <md5-authentication>
              <key-activation-wait-time>200</key-activation-wait-time>
            </md5-authentication>
          </ospf-interface-config>
        </interface-loopback-ospf-conf>
      </ip>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*key-activation-wait-time*

Specifies the time OSPF waits before activating a new MD5 key

# rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/md5-authentication/key-id

Configures MD5 password.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <md5-authentication>
              <key-table>
                <key-id>2</key-id>
                <key>0</key>
                <md5-authentication-key>pass</md5-authentication-key>
              </key-table>
            </md5-authentication>
          </ospf-interface-config>
        </interface-loopback-ospf-conf>
      </ip>
    </loopback>
  </interface>
</rbridge-id>
```

## Parameters

### *rbridge-id*

Specifies the RBridge ID

### *id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

### *key-id*

Specifies the MD5 key ID. The value can range from 1 through 255

### *key*

Specifies the encrypt type

**0**

Specifies no encryption. OSPF processes password as a plain text password

**2**

Specifies the user to provide the encrypted password, preceded by a dollar sign (\$)

**255**

Specifies the user to provide the encrypted password

### *md5-authentication-key*

Specifies the MD5 authentication password

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/mtu-ignore

Enables or disables MTU-match checking. In default operation, the IP MTU on both sides of an OSPF link must be the same, and a check of the MTU is performed when Hello packets are first exchanged.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <mtu-ignore></mtu-ignore>
          </ospf-interface-config>
        </interface-loopback-ospf-conf>
      </ip>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

**mtu-ignore**

Enables MTU-match checking

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/network

Configures the network type for the interface. Point-to-point can support unnumbered links, which requires less processing by OSPF.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <network>broadcast</network>
          </ospf-interface-config>
        </interface-loopback-ospf-conf>
      </ip>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*network*

Specifies the network type

**broadcast**

Network type is broadcast, such as Ethernet

**point-to-point**

Network type is point-to-point



## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/passive

Configures an OSPF interface as passive.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <passive></passive>
          </ospf-interface-config>
        </interface-loopback-ospf-conf>
      </ip>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

**passive**

Sets an OSPF interface as passive

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/priority

Configures priority for designated router (DR) election.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-
ospf">
          <ospf-interface-config>
            <priority>10</priority>
          </ospf-interface-config>
        </interface-loopback-ospf-conf>
      </ip>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*priority*

Specifies the priority value. The values can range from 0 through 255. The default value is 1

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/retransmit-interval

Configures retransmit interval. The interval is the time between Link-State Advertisement (LSA) retransmissions to adjacent routers for this interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <retransmit-interval>200</retransmit-interval>
          </ospf-interface-config>
        </interface-loopback-ospf-conf>
      </ip>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*retransmit-interval*

Specifies the retransmit interval in seconds. The values can range from 0 through 3600 seconds. The default interval is 5 seconds

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ip/ospf/transmit-delay

Configures the transmit delay for link-update packets, which is the estimated time required for OSPF to send link-state update packets on the interface to which you are connected.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <transmit-delay>10</transmit-delay>
          </ospf-interface-config>
        </interface-loopback-ospf-conf>
      </ip>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*transmit-delay*

Specifies the transmit delay in seconds. The values can range from 0 though 3600 seconds. The default interval is 1 second

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ ipv6/ospf/active

Sets a specific OSPFv3 interface to active.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>5</id>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <active></active>
        </interface-ospfv3-conf>
      </ipv6>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

**active**

Sets a specific OSPFv3 interface to active

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ ipv6/address

Configures a primary or secondary global or unique local IPv6 unicast address, including a manually configured interface ID.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>1</id>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-config>
          <address>
            <address>2001:db8:12d:1300:240z:d0ff:fe48:4672/64</address>
          </address>
        </ipv6-config>
      </ipv6>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

|                   |                            |
|-------------------|----------------------------|
| <i>rbridge-id</i> | Specifies the RBridge ID   |
| <i>id</i>         | Specifies the loopback ID  |
| <i>address</i>    | Specifies the IPv6 address |

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ ipv6/ospf/area

Enables OSPFv3 on an interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>5</id>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <interface-area>0</interface-area>
        </interface-ospfv3-conf>
      </ipv6>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*interface-area*

Specifies the area ID

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ ipv6/ospf/cost

Configures cost for a specific interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>5</id>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <cost>5</cost>
        </interface-ospfv3-conf>
      </ipv6>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*cost*

Specifies the cost value. The values can range from 1 through 65535. The default cost value is 1



## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ ipv6/ospf/dead-interval

Specifies the time period for which a neighbor router waits for a hello packet from the device before declaring the router down.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>5</id>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <link-interval-properties>
            <dead-interval>50</dead-interval>
          </link-interval-properties>
        </interface-ospfv3-conf>
      </ipv6>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

#### *dead-interval*

Specifies the dead interval in seconds. The values can range from 3 through 65535 seconds. The default interval is 40 seconds

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ ipv6/ospf/hello-interval

Sets the length of time between the transmission of hello packets that an interface sends to neighbor routers.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <link-interval-properties>
            <hello-interval>11</hello-interval>
          </link-interval-properties>
        </interface-ospfv3-conf>
      </ipv6>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

#### *hello-interval*

Specifies the hello interval in seconds. The values can range from 1 through 65535 seconds. The default interval is 10 seconds

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ ipv6/ospf/hello-jitter

Sets the allowed jitter between HELLO packets.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <link-interval-properties>
            <hello-jitter>11</hello-jitter>
          </link-interval-properties>
        </interface-ospfv3-conf>
      </ipv6>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*hello-jitter*

Specifies the allowed interval between hello packets. The values can range from from 1 through 50 percent (%)

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ ipv6/ospf/instance

Specifies the number of OSPFv3 instances running on an interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">  
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">  
      <id>10</id>  
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">  
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">  
          <instance>1</instance>  
        </interface-ospfv3-conf>  
      </ipv6>  
    </loopback>  
  </interface>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*instance*

Specifies the instance identification number. The value can range from 0 through 255

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ ipv6/ospf/mtu-ignore

Enables maximum transmission unit (MTU) match checking.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <mtu-ignore></mtu-ignore>
        </interface-ospfv3-conf>
      </ipv6>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

**mtu-ignore**

Enables maximum transmission unit (MTU) match checking

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ ipv6/ospf/network

Configures network type.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-loopback-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-
ospf">
          <ospf-interface-config>
            <network>broadcast</network>
          </ospf-interface-config>
        </interface-loopback-ospf-conf>
      </ip>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the loopback ID

*network*

Specifies the network type

#### **broadcast**

Network type is broadcast, such as Ethernet

#### **point-to-point**

Network type is point-to-point

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ ipv6/ospf/passive

Sets a specific OSPFv3 interface to passive.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <passive></passive>
        </interface-ospfv3-conf>
      </ipv6>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

**passive**

Sets a specific OSPFv3 interface to passive

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ ipv6/ospf/priority

Configures priority for designated router (DR) election and backup designated routers (BDRs) on the interface you are connected to.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <priority>10</priority>
        </interface-ospfv3-conf>
      </ipv6>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*priority*

Specifies the priority value. The value can range from 0 through 255. The default value is 1



## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ ipv6/ospf/retransmit-interval

Configures retransmit interval. The retransmit interval is the time between Link-State Advertisement (LSA) retransmissions to adjacent routers for a given interface

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <link-interval-properties>
            <retransmit-interval>10</retransmit-interval>
          </link-interval-properties>
        </interface-ospfv3-conf>
      </ipv6>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*retransmit-interval*

Specifies the retransmit interval in seconds. The values can range from 0 through 3600 seconds. The default value is 5 seconds

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ ipv6/ospf/suppress-linklsa

Suppresses link LSA advertisements.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <suppress-linklsa></suppress-linklsa>
        </interface-ospfv3-conf>
      </ipv6>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

**suppress-linklsa**

Suppresses link LSA advertisements

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/ ipv6/ospf/transmit-delay

Configures transmit delay for link-update packets. The transmit delay is the estimated time required for OSPFv3 to send link-state update packets on the interface to which you are connected.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <link-interval-properties>
            <transmit-delay>5</transmit-delay>
          </link-interval-properties>
        </interface-ospfv3-conf>
      </ipv6>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*transmit-delay*

Specifies the transmit delay in seconds. The values can range from 0 through 3600 seconds. The default value is 1 second

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/shutdown

Disables interface loopback port.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>1</id>
      <intf-loopback>
        <shutdown></shutdown>
      </intf-loopback>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

**shutdown**

Disables interface loopback port

# rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/snmp

Configures SNMP traps.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <snmp>
        <trap>
          <link-snmp-trap-status></link-snmp-trap-status>
        </trap>
      </snmp>
    </loopback>
  </interface>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

**link-snmp-trap-status**

Enables SNMP traps

## rbridge-id/{rbridge-number}/interface/loopback/{loopback-id}/vrf

Configures any port as a VRF port.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <loopback xmlns="urn:brocade.com:mgmt:brocade-intf-loopback">
      <id>10</id>
      <vrf>
        <forwarding>vrf1</forwarding>
      </vrf>
    </loopback>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*id*

Specifies the port number for the loopback interface. The value can range from 1 through 255

*forwarding*

Specifies the name of the VRF option for the port

## rbridge-id/{rbridge-number}/interface/ve

Configures a virtual Ethernet (VE) interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">  
    <ve>  
      <name>1</name>  
    </ve>  
  </interface>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the corresponding VLAN interface that must already be configured before the VE interface can be created

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/bfd/interval

Configures Bidirectional Forwarding Detection (BFD) session parameters on an interface

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <bfd>
        <interval>
          <min-tx>500</min-tx>
          <min-rx>250</min-rx>
          <multiplier>4</multiplier>
        </interval>
      </bfd>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*min-tx*

Specifies the interval a device waits to trasmit a control packet from BFD peers. The value can range from 50 through 30000 milliseconds. The default value is 200 milliseconds for chassis and 500 milliseconds for non chassis platforms

*min-rx*

Specifies the interval a device waits to receive a control packet from BFD. The value can range from 50 through 30000 milliseconds. The default value is 200 milliseconds for chassis and 500 milliseconds for non chassis platforms

peers

*multiplier*

Specifies the number of consecutive BFD control packets that must be missed from a BFD peer before BFD determines that the connection to that peer is not operational. The value can range from 3to 50. The default value is 3



## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/bfd/shutdown

Disables Bidirectional Forwarding Detection (BFD) on an interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <bfd>
        <bfd-shutdown></bfd-shutdown>
      </bfd>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*bfd-shutdown*

Disables Bidirectional Forwarding Detection (BFD) on an interface

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/address

Configures an IP address.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <ip-config>
          <address>
            <address>1.1.1.1/24</address>
            <ospf-ignore></ospf-ignore>
          </address>
        </ip-config>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*address*

Specifies the IP address

#### **secondary**

Specifies that the configured address is a secondary IP address. If this keyword is omitted, the configured address is the primary IP address

#### **ospf-ignore**

Disables adjacency formation with OSPF neighbors and advertisement of the interface to OSPF

#### **ospf-passive**

Disables adjacency formation with OSPF neighbors but does not disable advertisement of the interface to OSPF

# rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/anycast-address

Configures the IPv4 anycast address on an interface.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <ip-anycast-address xmlns="urn:brocade.com:mgmt:brocade-vrrp">
          <ip-address>192.128.2.1/24</ip-address>
        </ip-anycast-address>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*ip-address*

Specifies the IPv4 anycast address and mask. A mask value is required

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/arp-aging-timeout

Sets how long an ARP entry stays in cache before the cache refreshes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <ip-config>
          <arp-aging-timeout>220</arp-aging-timeout>
        </ip-config>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*arp-aging-timeout*

Specifies how long an ARP entry stays in cache. The value can range from 0 through 240 minutes

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/dhcp/relay/address

Configures the IP DHCP Relay on a Layer 3 interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-ve-dhcp-conf xmlns="urn:brocade.com:mgmt:brocade-dhcp">
          <dhcp>
            <relay>
              <servers>
                <relay-ip-addr>10.10.10.10</relay-ip-addr>
                <server-vrf-name>mgmt-vrf</server-vrf-name>
              </servers>
            </relay>
          </dhcp>
        </interface-ve-dhcp-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*relay-ip-addr*

Specifies the IPv4 address of the DHCP server where the DHCP client requests are to be forwarded

*server-vrf-name*

Specifies the VRF name. Use this option if the VRF where the DHCP server is located is different from the VRF of the interface where the client is connected

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/dhcp/relay/gateway/address

Configures the IP DHCP Relay on a Layer 3 gateway interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-ve-dhcp-conf xmlns="urn:brocade.com:mgmt:brocade-dhcp">
          <dhcp>
            <relay>
              <gateway>1.1.1.1</gateway>
            </relay>
          </dhcp>
        </interface-ve-dhcp-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*gateway*

Specifies the IPv4 gateway address of the DHCP server where the DHCP client requests are to be forwarded

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/directed-broadcast

Enables IP directed broadcasts on an interface. A directed broadcast is an IP broadcast to all devices within a single directly attached network or subnet.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <ip-config>
          <directed-broadcast></directed-broadcast>
        </ip-config>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

**directed-broadcast**

Enables IP directed broadcasts on an interface

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/fabric-virtual-gateway/enable

Enables IPv4 Fabric-Virtual-Gateway sessions in VCS.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <ip-local-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-
anycast-gateway">
          <local-ip-gw-id>1</local-ip-gw-id>
          <enable_local></enable_local>
        </ip-local-anycast-gateway>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE number

*local-ip-gw-id*

Specifies the gateway ID

*enable\_local*

Enables IPv4 Fabric-Virtual-Gateway sessions in VCS



# rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/fabric-virtual-gateway/load-balancing

Configures load balancing on an RBridge.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <ip-local-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-
gateway">
          <local-ip-gw-id>1</local-ip-gw-id>
          <load-balancing>
            <threshold-priority>100</threshold-priority>
          </load-balancing>
        </ip-local-anycast-gateway>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE number

*local-ip-gw-id*

Specifies the gateway ID

*threshold-priority*

Specifies the load balancing threshold priority. The value can range from 1 through 254

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/fabric-virtual-gateway/track/interface

Tracks an interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <ip-local-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-
anycast-gateway">
          <local-ip-gw-id>1</local-ip-gw-id>
          <track>
            <interface>
              <interface-type>tengigabitethernet</interface-type>
              <interface-name>1/0/5</interface-name>
              <interface-priority>25</interface-priority>
            </interface>
          </track>
        </ip-local-anycast-gateway>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*local-ip-gw-id*

Specifies the gateway ID

*interface-type*

Specifies the interface type

*interface-name*

Specifies the interface name

*interface-priority*

Specifies the track priority. The value can range from 1 through 254

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/fabric-virtual-gateway/track/network

Tracks a network.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <ip-local-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-
gateway">
          <local-ip-gw-id>1</local-ip-gw-id>
          <track>
            <network>
              <network-address>1.1.1.1/24</network-address>
              <network-priority>26</network-priority>
            </network>
          </track>
        </ip-local-anycast-gateway>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*local-ip-gw-id*

Specifies the gateway ID

*network-address*

Specifies the network address

*network-priority*

Specifies the network priority. The value can range from 1 through 254

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/fabric-virtual-gateway/track/next-hop

Tracks next-hop.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <ip-local-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-
anycast-gateway">
          <local-ip-gw-id>1</local-ip-gw-id>
          <track>
            <next-hop>
              <next-hop-address>1.1.1.1</next-hop-address>
              <next-hop-priority>28</next-hop-priority>
            </next-hop>
          </track>
        </ip-local-anycast-gateway>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*local-ip-gw-id*

Specifies the gateway ID

*next-hop-address*

Specifies the next-hop address

*next-hop-priority*

Specifies the next-hop priority. The value can range from 1 through 254

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/icmp/address-mask

Enables IPv4 Internet Control Message Protocol (ICMP) address masks.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <icmp xmlns="urn:brocade.com:mgmt:brocade-icmp">
          <address-mask></address-mask>
        </icmp>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

**address-mask**

Enables IPv4 Internet Control Message Protocol (ICMP) address masks

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/icmp/echo-reply

Enables the generation of IPv4 Internet Control Message Protocol (ICMP) Echo Reply messages.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <icmp xmlns="urn:brocade.com:mgmt:brocade-icmp">
          <echo-reply></echo-reply>
        </icmp>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

**echo-reply**

Enables the generation of IPv4 Internet Control Message Protocol (ICMP) Echo Reply messages

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/icmp/rate-limiting

Limits the rate at which IPv4 Internet Control Message Protocol (ICMP) messages are sent on a network.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <icmp xmlns="urn:brocade.com:mgmt:brocade-icmp">
          <rate-limiting>1100</rate-limiting>
        </icmp>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

**rate-limiting**

Specifies the time interval per ICMP packet. The value can range from 1 through 4294967295 milliseconds. The default interval is 1000 milliseconds

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/icmp/redirect

Enables IPv4 Internet Control Message Protocol (ICMP) Redirect messages, which request that packets be sent on an alternative route.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <icmp xmlns="urn:brocade.com:mgmt:brocade-icmp">
          <redirect></redirect>
        </icmp>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

**redirect**

Enables IPv4 Internet Control Message Protocol (ICMP) Redirect messages



## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/icmp/unreachable

Prohibits routers from forwarding an IPv4 Internet Control Message Protocol (ICMP) Destination Unreachable Code 3 (port unreachable) message on a point-to-point link back onto the ingress port.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <icmp xmlns="urn:brocade.com:mgmt:brocade-icmp">
          <unreachable></unreachable>
        </icmp>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

**unreachable**

Prohibits routers from forwarding an IPv4 Internet Control Message Protocol (ICMP)

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/mtu

Sets the MTU on a specified interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <ip-config>
          <mtu>2000</mtu>
        </ip-config>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*mtu*

Specifies the size of the maximum transmission unit (MTU) of an interface. The value can range from 1300 through 9018 bytes. The default is 1500 bytes

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/multicast-boundary

Configures a multicast boundary on an interface. You can also filter a range of multicast-group addresses by specifying a prefix list.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <pim-intf-vlan-cont xmlns="urn:brocade.com:mgmt:brocade-pim">
          <pim-int-cmd>
            <mcast-bdry-prefix-list>myprefix</mcast-bdry-prefix-list>
          </pim-int-cmd>
        </pim-intf-vlan-cont>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- name*  
Specifies the VE interface number
- mcast-bdry-prefix-list*  
Specifies the name of a prefix list

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/active

Sets a specific OSPF interface to active.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <active></active>
          </ospf-interface-config>
        </interface-vlan-ospf-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

**active**

Sets a specific OSPF interface to active

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/area

Enables OSPF on an interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <area>0</area>
          </ospf-interface-config>
        </interface-vlan-ospf-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

*area*

Specifies the area address in dotted decimal or decimal format

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/auth-change-wait-time

Configures authentication-change hold time.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <area>0</area>
            <auth-change-wait-time>100</auth-change-wait-time>
          </ospf-interface-config>
        </interface-vlan-ospf-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

*area*

Specifies the area address

*auth-change-wait-time*

Specifies the time before an authentication change takes place. The values can range from 0 to 14400 seconds. The default wait time is 300 seconds

# rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/authentication-key

Configures simple password-based authentication for OSPF.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <authentication-key>
              <auth-key-table>
                <encrypttype>0</encrypttype>
                <auth-key>pass</auth-key>
              </auth-key-table>
            </authentication-key>
          </ospf-interface-config>
        </interface-vlan-ospf-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

*encrypttype*

Specifies the encryption type

**0**

Specifies no encryption. OSPF processes password as a plain text password

**2**

Expects the user to provide the encrypted password, preceded by a dollar sign (\$) sign

**255**

Expects the user to provide the encrypted password

*auth-key*

Specifies the OSPF password

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/bfd

Enables Bidirectional Forwarding Detection (BFD) on a specific OSPFv2 interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <bfd>
              <intf-bfd-enable></intf-bfd-enable>
            </bfd>
          </ospf-interface-config>
        </interface-vlan-ospf-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

*intf-bfd-enable*

Enables Bidirectional Forwarding Detection (BFD) on a specific OSPFv2 interface



## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/cost

Configures cost for a specific interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <cost>10</cost>
          </ospf-interface-config>
        </interface-vlan-ospf-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

*cost*

Specifies the cost value. The value can range from 1 through 65535. The default cost value is 1

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/database-filter

Configures filters for different types of outgoing Link State Advertisements (LSAs).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <database-filter>
              <all-out></all-out>
            </database-filter>
          </ospf-interface-config>
        </interface-vlan-ospf-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

*database-filter*

Specifies the filter type

**all-external**

Blocks all external LSAs

**allow-default-and-type-4**

Allows default-route LSAs and Type 4 LSAs, but block all other LSAs

**allow-default-out**

Allows default-route LSAs, but block all other LSAs

**out**

Filters outgoing LSAs

**all-out**

Blocks all LSAs

**all-summary-external**

Blocks all summary (Type 3) and external (type 5) LSAs

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/dead-interval

Configures the neighbor dead interval, which is the number of seconds that a neighbor router waits for a hello packet from the device before declaring the router down.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <dead-interval>200</dead-interval>
          </ospf-interface-config>
        </interface-vlan-ospf-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

*dead-interval*

Specifies the dead interval in seconds. The default interval is 40 seconds

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/hello-interval

Configures the hello interval, which is the length of time between the transmission of hello packets that this interface sends to neighbor routers.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <hello-interval>100</hello-interval>
          </ospf-interface-config>
        </interface-vlan-ospf-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

*hello-interval*

Specifies the hello interval in seconds. The default interval is 10 seconds

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/md5-authentication/key-activation-wait-time

Configures MD5 authentication change hold time.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <md5-authentication>
              <key-activation-wait-time>100</key-activation-wait-time>
            </md5-authentication>
          </ospf-interface-config>
        </interface-vlan-ospf-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

*key-activation-wait-time*

Specifies the time that OSPF waits before activating a new key. The values can range from 0 to 14400 seconds. The default value is 300 seconds

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/md5-authentication/key-id

Configures MD5 password.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <md5-authentication>
              <key-table>
                <key-id>12</key-id>
                <key>0</key>
                <md5-authentication-key>pass</md5-authentication-key>
              </key-table>
            </md5-authentication>
          </ospf-interface-config>
        </interface-vlan-ospf-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

*key-id*

Specifies the MD5 key ID. The value can range from 1 through 255

*key*

Specifies the encryption type

**0**

Specifies no encryption. OSPF processes password as a plain text password

**2**

Expects the user to provide the encrypted password, preceded by a dollar sign (\$)

**255**

Expects the user to provide the encrypted password

*md5-authentication-key*

Specifies the OSPF password

# rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/mtu-ignore

Enables MTU-match checking. In default operation, the IP MTU on both sides of an OSPF link must be the same, and a check of the MTU is performed when Hello packets are first exchanged.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <mtu-ignore></mtu-ignore>
          </ospf-interface-config>
        </interface-vlan-ospf-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

## Parameters

- rbridge-id*  
Specifies the RBridge ID
- name*  
Specifies the VE interface number
- mtu-ignore**  
Enables MTU-match checking

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/network

Configures the network type for the interface. Point-to-point can support unnumbered links, which requires less processing by OSPF.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <network>broadcast</network>
          </ospf-interface-config>
        </interface-vlan-ospf-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

*network*

Specifies the network type

#### **broadcast**

Network type is broadcast, such as Ethernet

#### **point-to-point**

Network type is point-to-point



# rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/passive

Configures an OSPF interface as passive.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <passive></passive>
          </ospf-interface-config>
        </interface-vlan-ospf-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

## Parameters

- rbridge-id*  
Specifies the RBridge ID
- name*  
Specifies the VE interface number
- passive**  
Sets an OSPF interface as passive

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/priority

Configures priority for designated router (DR) election.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <priority>10</priority>
          </ospf-interface-config>
        </interface-vlan-ospf-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

*priority*

Specifies the priority value. The value can range from 0 through 255. The default value is 1

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/retransmit-interval

Configures retransmit interval. The interval is the time between Link-State Advertisement (LSA) retransmissions to adjacent routers for this interface

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <retransmit-interval>10</retransmit-interval>
          </ospf-interface-config>
        </interface-vlan-ospf-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

*retransmit-interval*

Specifies the retransmit interval in seconds. The values can range from 0 through 3600 seconds. The default interval is 5 seconds

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/ospf/transmit-delay

Configures the transmit delay for link-update packets, which is the estimated time required for OSPF to send link-state update packets on the interface to which you are connected.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <interface-vlan-ospf-conf xmlns="urn:brocade.com:mgmt:brocade-ospf">
          <ospf-interface-config>
            <transmit-delay>15</transmit-delay>
          </ospf-interface-config>
        </interface-vlan-ospf-conf>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

*transmit-delay*

Specifies the transmit delay in seconds. The values can range from 0 through 3600 seconds. The default value is 1 second

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/pim/dr-priority

Configures the designated router (DR) priority of a protocol Independent Multicast (PIM) enabled interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <pim-intf-vlan-cont xmlns="urn:brocade.com:mgmt:brocade-pim">
          <pim-int-cmd>
            <pim>
              <dr-priority>2</dr-priority>
            </pim>
          </pim-int-cmd>
        </pim-intf-vlan-cont>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*dr-priority*

Specifies the DR priority value. The value can range from 0 through 65535. The default DR priority value is 1

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/pim/neighbor-filter

By default, directly connected routers under protocol-independent multicast (PIM) form neighborhood with one another. Using this command, you can block specified routers from neighborhood.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <pim-intf-vlan-cont xmlns="urn:brocade.com:mgmt:brocade-pim">
          <pim-int-cmd>
            <pim>
              <neighbor-filter>prefix1</neighbor-filter>
            </pim>
          </pim-int-cmd>
        </pim-intf-vlan-cont>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*neighbor-filter*

Specifies the name of a prefix list defined by the ip prefix-list command. The values can be between 1 and 63 characters. Although the first character must be alphabetic, the others can be alphanumeric, underscores (\_), or minus signs (-).

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/pim-sparse

Enables Protocol Independent Multicast Sparse Mode on a physical or a VE interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <pim-intf-vlan-cont xmlns="urn:brocade.com:mgmt:brocade-pim">
          <pim-int-cmd>
            <pim-sparse></pim-sparse>
          </pim-int-cmd>
        </pim-intf-vlan-cont>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

**pim-sparse**

Enables Protocol Independent Multicast Sparse Mode

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/policy

Enables policy-based routing (PBR) on any Layer 3 interface after ACLs and route map entries are configured.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip-pbr-interface xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
        <ip>
          <policy>
            <route-map>
              <route-map-name>route1</route-map-name>
            </route-map>
          </policy>
        </ip>
      </ip-pbr-interface>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*route-map-name*

Specifies the name of the route-map when it was created



## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ip/proxy-arp

Enables proxy ARP on an interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ip xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <ip-config>
          <proxy-arp></proxy-arp>
        </ip-config>
      </ip>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

**proxy-arp**

Enables proxy ARP on an interface

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/access-group

Applies rules specified in an IPv6 access control list (ACL) to traffic entering or exiting an interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <access-group xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list">
          <ipv6-access-list>acl10</ipv6-access-list>
          <ip-direction>in</ip-direction>
        </access-group>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

*ipv6-access-list*

Specifies the name of the standard or extended IP access list

*ip-direction*

Specifies the binding direction (ingress or egress)

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/address

Configures a primary or secondary global or unique local IPv6 unicast address, including a manually configured interface ID.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-config>
          <address>
            <ipv6-address>
              <address>2003:384d::23:24/64</address>
              <anycast></anycast>
            </ipv6-address>
          </address>
        </ipv6-config>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

*address*

Specifies the IPv6 address

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/anycast-address

Configures the IPv6 anycast address on an interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-anycast-address xmlns="urn:brocade.com:mgmt:brocade-vrrp">
          <ipv6-address>2001:1:0:1::1/64</ipv6-address>
        </ipv6-anycast-address>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*ipv6-address*

Specifies the IPv6 anycast address and mask. A mask value is required

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

# rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/dhcp/relay/address

Configures the IPv6 DHCP Relay on a Layer 3 interface.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ve-dhcp-conf xmlns="urn:brocade.com:mgmt:brocade-dhcpv6">
          <dhcp>
            <relay>
              <servers>
                <relay-ip-addr>2004:384d::23:24</relay-ip-addr>
                <interface>
                  <interface-type>fortygigabitethernet</interface-
type>
                    <interface-name>1/0/50</interface-name>
                  </interface>
                </servers>
              </relay>
            </dhcp>
          </interface-ve-dhcp-conf>
        </ipv6>
      </ve>
    </interface>
  </rbridge-id>
```

## Parameters

### *rbridge-id*

Specifies the RBridge ID

### *name*

Specifies the VLAN ID

### *relay-ip-addr*

Specifies the IPv6 address of the DHCP server where the DHCP client requests are to be forwarded.

### *interface-type*

Specifies the interface type, such as gigabitEthernet, TengigabitEthernet, FortygigabitEthernet, HundredgigabitEthernet, or Ve interface.

### *interface-name*

Specifies the interface name

### **use-vrf**

Use this option if the VRF where the DHCP server is located is different from the VRF of the interface where the client is connected

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway/enable

Enables IPv6 Fabric-Virtual-Gateway sessions in VCS.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-local-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-
anycast-gateway">
          <local-ipv6-gw-id>1</local-ipv6-gw-id>
          <enable_local></enable_local>
        </ipv6-local-anycast-gateway>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE number

*local-ipv6-gw-id*

Specifies the gateway ID

*enable\_local*

Enables IPv6 Fabric-Virtual-Gateway sessions

# rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/fabric-virtual-gateway/track

Tracks an interface, network, or next hop.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-local-anycast-gateway xmlns="urn:brocade.com:mgmt:brocade-
anycast-gateway">
          <local-ipv6-gw-id>1</local-ipv6-gw-id>
          <ipv6-track>
            <ipv6-interface>
              <ipv6-interface-type>fortygigabitethernet</ipv6-interface-
type>
              <ipv6-interface-name>1/0/50</ipv6-interface-name>
              <ipv6-interface-priority>25</ipv6-interface-priority>
            </ipv6-interface>
            <ipv6-network>
              <ipv6-network-address>1::/64</ipv6-network-address>
              <ipv6-network-priority>10</ipv6-network-priority>
            </ipv6-network>
            <ipv6-next-hop>
              <ipv6-next-hop-address>2001::2</ipv6-next-hop-address>
              <ipv6-next-hop-priority>28</ipv6-next-hop-priority>
            </ipv6-next-hop>
          </ipv6-track>
        </ipv6-local-anycast-gateway>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

*local-ipv6-gw-id*

Specifies the gateway ID

*ipv6-interface-type*

Specifies the interface type

*ipv6-interface-name*

Specifies the interface name

*ipv6-interface-priority*

Specifies the track priority. The value can range from 1 through 254

*ipv6-network-address*

Specifies the network address

*ipv6-network-priority*

Specifies the track priority. The value can range from 1 through 254

*ipv6-next-hop-address*

Specifies the next-hop IP address

*ipv6-next-hop-priority*

Specifies the track priority. The value can range from 1 through 254



# rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/hop-by-hop-trap

Enables hop-by-hop trap on an interface.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-ve-intf-cmds xmlns="urn:brocade.com:mgmt:brocade-mld-snooping">
          <hop-by-hop-trap></hop-by-hop-trap>
        </ipv6-ve-intf-cmds>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

**hop-by-hop-trap**

Enables hop-by-hop trap on an interface

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/icmpv6/echo-reply

Enables the generation of an IPv6 Internet Control Message Protocol version 6 (ICMPv6) Echo Reply message.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <icmpv6 xmlns="urn:brocade.com:mgmt:brocade-icmp">
          <echo-reply></echo-reply>
        </icmpv6>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

**echo-reply**

Enables the generation of an IPv6 ICMPv6 Echo Reply message

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/icmpv6/rate-limiting

Limits the rate at which IPv6 Internet Control Message Protocol version 6 (ICMPv6) messages are sent on an IPv6 network.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <icmpv6 xmlns="urn:brocade.com:mgmt:brocade-icmp">
          <rate-limiting>1500</rate-limiting>
        </icmpv6>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*rate-limiting*

Specifies the number of milliseconds between packets. The values can range from 1 through 4294967295 milliseconds. The default value is 1000 milliseconds

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/icmpv6/redirect

Enables IPv6 Internet Control Message Protocol version 6 (ICMPv6) Redirect messages, which request that packets be sent on an alternative route.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <icmpv6 xmlns="urn:brocade.com:mgmt:brocade-icmp">
          <redirect></redirect>
        </icmpv6>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

**redirect**

Enables IPv6 Internet Control Message Protocol version 6 (ICMPv6) Redirect messages

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/icmpv6/unreachable

Prohibits routers from forwarding an IPv6 Internet Control Message Protocol version 6 (ICMPv6) Destination Unreachable Code 3 (port unreachable) message on a point-to-point link back onto the ingress port.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <icmpv6 xmlns="urn:brocade.com:mgmt:brocade-icmp">
          <unreachable></unreachable>
        </icmpv6>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

**unreachable**

Enables the sending of Destination Unreachable Code 3 messages

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/mtu

Configures a maximum size for IPv6 MTU packets to be sent on an interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-config>
          <mtu>1300</mtu>
        </ipv6-config>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*mtu*

Specifies the IPv6 MTU in bytes. The value can range from 576 through 9018. The default value is 1500 bytes

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/broadcast-mac-trap

Enables the trap for all the IPv6 packets with broadcast mac.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
          <ipv6-intf-cmds>
            <nd>
              <broadcast-mac-trap></broadcast-mac-trap>
            </nd>
          </ipv6-intf-cmds>
        </ipv6-nd-ra>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

**broadcast-mac-trap**

Enables the trap for all the IPv6 packets with broadcast mac

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/cache

Configures the time interval after which the IPv6 Neighbor Discovery cache is deleted or refreshed.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
          <ipv6-intf-cmds>
            <nd>
              <cache>
                <expire>14000</expire>
              </cache>
            </nd>
          </ipv6-intf-cmds>
        </ipv6-nd-ra>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*expire*

Specifies the interval in minutes. The value can range from 1 through 240 minutes. The default interval is 240 minutes



## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/dad/attempts

Configures the number of IPv6 Neighbor Discovery Neighbor Solicitation (NS) messages to be sent as part of duplicate address detection (DAD).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
          <ipv6-intf-cmds>
            <nd>
              <dad>
                <attempts>3</attempts>
              </dad>
            </nd>
          </ipv6-intf-cmds>
        </ipv6-nd-ra>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*attempts*

Specifies the number of solicitations. The values can range from 0 through 10. The default value is 2

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/dad/time

Configures the retransmit time interval for IPv6 Neighbor Discovery Neighbor Solicitation (NS) messages that are sent as part of duplicate address detection (DAD).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
          <ipv6-intf-cmds>
            <nd>
              <dad>
                <time>2</time>
              </dad>
            </nd>
          </ipv6-intf-cmds>
        </ipv6-nd-ra>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*time*

Specifies the time in seconds. The value can range from 1 through 5 seconds. The default time is 1 second

# rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/dad/hoplimit

Configures the number of hops to be advertised in IPv6 Neighbor Discovery Router Advertisement (RA) messages.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
          <ipv6-intf-cmds>
            <nd>
              <hoplimit>65</hoplimit>
            </nd>
          </ipv6-intf-cmds>
        </ipv6-nd-ra>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*hoplimit*

Specifies the number of hops to be advertised. The value can range from 0 through 255. The default value is 64

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/managed-config-flag

In IPv6 Neighbor Discovery, indicates to hosts on a local link that they must use the stateful autoconfiguration feature to obtain IPv6 addresses for their interfaces.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
          <ipv6-intf-cmds>
            <nd>
              <managed-config-flag></managed-config-flag>
            </nd>
          </ipv6-intf-cmds>
        </ipv6-nd-ra>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- name*  
Specifies the VLAN ID
- managed-config-flag**

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/mtu

Sets the size of the maximum transmission unit (MTU) that is advertised in Neighbor Discovery Router Advertisement (RA) messages.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
          <ipv6-intf-cmds>
            <nd>
              <mtu>1550</mtu>
            </nd>
          </ipv6-intf-cmds>
        </ipv6-nd-ra>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*mtu*

Specifies the size of the MTU to be advertised in bytes. The value can range from 1280 through 65535 bytes. The default value is 1500 bytes

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/ns-interval

Sets the interval for address resolution between IPv6 Neighbor Discovery Neighbor Solicitation (NS) messages.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
          <ipv6-intf-cmds>
            <nd>
              <ns-interval>2</ns-interval>
            </nd>
          </ipv6-intf-cmds>
        </ipv6-nd-ra>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*ns-interval*

Specifies the number of seconds between neighbor solicitation messages. The value can range from 1 through 5 seconds. The default value is 1 second

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/other-config-flag

In IPv6 Neighbor Discovery, indicates to hosts on a local link that they can use the stateful autoconfiguration feature to obtain configuration settings other than IPv6 address information for their interfaces.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
          <ipv6-intf-cmds>
            <nd>
              <other-config-flag></other-config-flag>
            </nd>
          </ipv6-intf-cmds>
        </ipv6-nd-ra>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- name*  
Specifies the VLAN ID
- other-config-flag**

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/prefix

Configures which IPv6 prefixes are included in IPv6 Neighbor Discovery Router Advertisement (RA) messages.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
          <ipv6-intf-cmds>
            <nd>
              <prefix>
                <prefix-ipv6-address>2ffe:1111::/64</prefix-ipv6-
address>
              </prefix>
            </nd>
          </ipv6-intf-cmds>
        </ipv6-nd-ra>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- name*  
Specifies the VLAN ID
- prefix-ipv6-address*  
Specifies the IPv6 prefix



## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/ra-interval

Configures the maximum interval range and minimum interval at which IPv6 Neighbor Discovery Router Advertisement (RA) messages are sent.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
          <ipv6-intf-cmds>
            <nd>
              <ra-interval>
                <max-interval>650</max-interval>
                <min>250</min>
              </ra-interval>
            </nd>
          </ipv6-intf-cmds>
        </ipv6-nd-ra>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*max-interval*

Specifies the maximum interval range in seconds. The value can range from 4 through 1800 seconds. The default interval is 200 through 600 seconds, with messages sent randomly within that interval

*min*

Specifies a minimum interval in seconds. The value can range from 0 through 1800 seconds. The default interval is 200 seconds

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/ra-lifetime

Configures the amount of time in IPv6 Neighbor Discovery that a router is considered a valid default router.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
          <ipv6-intf-cmds>
            <nd>
              <ra-lifetime>1900</ra-lifetime>
            </nd>
          </ipv6-intf-cmds>
        </ipv6-nd-ra>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*ra-lifetime*

Specifies the time in seconds. The value can range from 0 through 9000 seconds. The default time is 1800 seconds

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/reachable-time

Configures the amount of time in IPv6 Neighbor Discovery that a device considers a removed IPv6 node reachable.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
          <ipv6-intf-cmds>
            <nd>
              <reachable-time>1</reachable-time>
            </nd>
          </ipv6-intf-cmds>
        </ipv6-nd-ra>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*reachable-time*

Specifies the time in milliseconds. The value can range from 0 through 3600000 milliseconds. The default value is 0

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/retrans-timer

Configures the time advertised between IPv6 Neighbor Discovery Neighbor Solicitation (NS) messages.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
          <ipv6-intf-cmds>
            <nd>
              <retrans-timer>1</retrans-timer>
            </nd>
          </ipv6-intf-cmds>
        </ipv6-nd-ra>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*retrans-timer*

Specifies the interval in milliseconds, at which NS messages are sent. The value can range from 0 through 4294967295 milliseconds. The default is 0

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/nd/suppress-ra

Disables the sending of ICMPv6 Router Advertisement (RA) messages, including those sent in response to a solicitation as well as MTUs.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
          <ipv6-intf-cmds>
            <nd>
              <suppress-ra>
                <suppress-ra-all></suppress-ra-all>
              </suppress-ra>
            </nd>
          </ipv6-intf-cmds>
        </ipv6-nd-ra>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*suppress-ra*

Disables the sending of ICMPv6 Router Advertisement (RA) messages

**all**

Disables the sending of all RA messages, including those sent in response to a solicitation

**mtu**

Disables the sending of MTUs in RA messages

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/neighbor

Configures the IPv6 and MAC addresses of a neighbor as static entries for IPv6 Neighbor Discovery.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
          <ipv6-intf-cmds>
            <neighbor>
              <ipv6-address>2004:384d::23:24</ipv6-address>
              <hardware-address>0011.1122.2233</hardware-address>
            </neighbor>
          </ipv6-intf-cmds>
        </ipv6-nd-ra>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*ipv6-address*

Specifies the IPv6 address of a neighbor in A:B:C:D format

*hardware-address*

Specifies the MAC address of the neighbor in HHHH.HHHH.HHHH format

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/active

Sets a specific OSPFv3 interface to active.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <active></active>
        </interface-ospfv3-conf>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- name*  
Specifies the VLAN ID
- active**  
Activates OSPFv3 interface

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/area

Enables OSPFv3 on an interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <interface-area>1.1.1.1</interface-area>
        </interface-ospfv3-conf>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- name*  
Specifies the VLAN ID
- interface-area*  
Specifies the address



## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/authentication/ipsec/disable

Disables IP security (IPsec) services on an OSPFv3 interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <authentication>
            <ipsec>
              <ipsec-authentication-disable></ipsec-authentication-
disable>
            </ipsec>
          </authentication>
        </interface-ospfv3-conf>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*ipsec-authentication-disable*

Disables IP security (IPsec) services on an OSPFv3 interface

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/authentication/ipsec/key-add-remove-interval

Specifies IPsec as the authentication type for an OSPFv3 interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <authentication>
            <ipsec>
              <ifc-key-add-remove-interval>350</ifc-key-add-remove-
interval>
            </ipsec>
          </authentication>
        </interface-ospfv3-conf>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*ifc-key-add-remove-interval*

Specifies the OSPFv3 authentication key add-remove interval. The values can range from decimal numbers 0 through 14400. The default value is 300

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/authentication/spi

Specifies the security policy index (SPI) value for an OSPFv3 interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <authentication>
            <ipsec-auth-key-config>
              <spi>550</spi>
              <esp>NULL</esp>
              <esp-auth>hmac-sha1</esp-auth>
              <esp-auth-no-encrypt></esp-auth-no-encrypt>
              <esp-auth-key>abcef12345678901234fedcba098765432109876</
esp-auth-key>
            </ipsec-auth-key-config>
          </authentication>
        </interface-ospfv3-conf>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*spi*

Specifies the SPI value. The values can range from decimal numbers 512 through 4294967295

*esp*

Specifies Encapsulating Security Payload (ESP) as the protocol to provide packet-level security

**null**

Specifies that the ESP payload is not encrypted

*esp-auth*

Specifies the authentication type

**hmac-md5**

Enables Hashed Message Authentication Code (HMAC) Message Digest 5 (MD5) authentication on the OSPF interface

**hmac-sha1**

Enables HMAC Secure Hash Algorithm 1 (SHA-1) authentication on the OSPF interface

*esp-auth-no-encrypt*

The 40-character key is not encrypted upon either its entry or its display  
*esp-auth-key*  
Specifies the 40 hexadecimal character key

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/bfd

Enables Bidirectional Forwarding Detection (BFD) on a specific OSPFv3 interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <bfd>
            <bfd-enable></bfd-enable>
          </bfd>
        </interface-ospfv3-conf>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*bfd-enable*

Enables Bidirectional Forwarding Detection (BFD) on a specific OSPFv3 interface

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/cost

Configures cost for a specific interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <cost>10</cost>
        </interface-ospfv3-conf>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*cost*

Specifies the Cost value. The value can range from 1 through 65535. The default value is 1

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/dead-interval

Specifies the time period for which a neighbor router waits for a hello packet from the device before declaring the router down.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <link-interval-properties>
            <dead-interval>45</dead-interval>
          </link-interval-properties>
        </interface-ospfv3-conf>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*dead-interval*

Specifies the dead interval in seconds. The values can range from 3 through 65535 seconds. The default value is 40 seconds

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/hello-interval

Sets the length of time between the transmission of hello packets that an interface sends to neighbor routers.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <link-interval-properties>
            <hello-interval>15</hello-interval>
          </link-interval-properties>
        </interface-ospfv3-conf>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*hello-interval*

Specifies the hello interval in seconds. The values can range from 1 through 65535 seconds. The default value is 10 seconds



## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/hello-jitter

Sets the allowed jitter between HELLO packets.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <link-interval-properties>
            <hello-jitter>20</hello-jitter>
          </link-interval-properties>
        </interface-ospfv3-conf>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*hello-jitter*

Specifies allowed interval between hello packets. The values can range from 1 through 50 percent (%).

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/instance

Specifies the number of OSPFv3 instances running on an interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <instance>1</instance>
        </interface-ospfv3-conf>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*instance*

Specifies the instance identification number. The values can range from 0 through 255

# rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/mtu-ignore

Enables maximum transmission unit (MTU) match checking.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <mtu-ignore></mtu-ignore>
        </interface-ospfv3-conf>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

**mtu-ignore**

Enables maximum transmission unit (MTU) match checking

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/network

Configures network type.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <network>broadcast</network>
        </interface-ospfv3-conf>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*network*

Specifies the network type

**broadcast**

Network type is broadcast, such as Ethernet

**point-to-point**

Network type is point-to-point.

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/passive

Sets a specific OSPFv3 interface to passive.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <passive></passive>
        </interface-ospfv3-conf>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

**passive**

Sets the OSPFv3 interface to passive.

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/priority

Configures priority for designated router (DR) election and backup designated routers (BDRs) on the interface you are connected to.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <priority>2</priority>
        </interface-ospfv3-conf>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*priority*

Specifies the priority value. The value can range from 0 through 255. The default value is 1

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/retransmit-interval

Configures retransmit interval. The retransmit interval is the time between Link-State Advertisement (LSA) retransmissions to adjacent routers for a given interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <link-interval-properties>
            <retransmit-interval>10</retransmit-interval>
          </link-interval-properties>
        </interface-ospfv3-conf>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*retransmit-interval*

Specifies the retransmit interval in seconds. The values can range from from 0 through 3600 seconds. The default interval is 5 seconds

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/suppress-linklsa

Suppresses link LSA advertisements.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <suppress-linklsa></suppress-linklsa>
        </interface-ospfv3-conf>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- name*  
Specifies the VLAN ID
- suppress-linklsa**  
Suppresses link LSA advertisements



## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/ospf/transmit-delay

ipv6 ospf transmit-delay

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <interface-ospfv3-conf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
          <link-interval-properties>
            <transmit-delay>13</transmit-delay>
          </link-interval-properties>
        </interface-ospfv3-conf>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*transmit-delay*

Specifies the transmit delay in seconds. The values can range from 0 through 3600 seconds. The default value is 1 second

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/policy

Configures PBR.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <policy xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
          <route-map>
            <ipv6-route-map-name>route1</ipv6-route-map-name>
          </route-map>
        </policy>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*ipv6-route-map-name*

Specifies the route map name

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/vrrp-extended-group

Configures an IPv6 VRRP-Ev3 group.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <vrrpv3e xmlns="urn:brocade.com:mgmt:brocade-vrrpv3">
          <vrid>1</vrid>
        </vrrpv3e>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*vrid*

Specifies a number from 1 through 128 that you assign to the VRRP-Ev3 group

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/ipv6/vrrp-suppress-interface-ra

Suppresses interface router advertisement (RA) when VRRPv3 is configured on an interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-config">
        <ipv6-nd-ra xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
          <ipv6-intf-cmds>
            <vrrp-suppress-interface-ra></vrrp-suppress-interface-ra>
          </ipv6-intf-cmds>
        </ipv6-nd-ra>
      </ipv6>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

**vrrp-suppress-interface-ra**

Suppresses interface router advertisement (RA) when VRRPv3 is configured on an interface

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/snmp

Enable SNMP traps.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <snmp>
        <trap>
          <link-snmp-trap-status></link-snmp-trap-status>
        </trap>
      </snmp>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface number

**link-snmp-trap-status**

Enables SNMP traps

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrf

Configures any port as a VRF port.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <vrf xmlns="urn:brocade.com:mgmt:brocade-ip-config">
        <forwarding>vrf1</forwarding>
      </vrf>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*forwarding*

Specifies the name of the VRF option for the port

# rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group

Configures a virtual-router-extended group and enters into the virtual router configuration mode.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
        <vrid>2</vrid>
      </vrrpe>
    </ve>
  </interface>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*vrid*

Specifies a user-assigned number from 1 through 255 that you assign to the virtual router group

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/advertise-backup

Enables a backup VRRP router to send advertisement frames to the master VRRP router.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
        <vrid>2</vrid>
        <advertise-backup></advertise-backup>
      </vrrpe>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

**advertise-backup**

Enables a backup VRRP router



## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/advertisement-interval

Configures the interval at which the master VRRP router advertises its existence to the backup routers.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
        <vrid>2</vrid>
        <advertisement-interval>2</advertisement-interval>
      </vrrpe>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*advertisement-interval*

Specifies the interval at which the master VRRP router advertises its existence to the backup routers. The values can range from 1 through 255 seconds for VRRPv2 and from 100 through 40900 milliseconds for VRRPv3

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/advertisement-interval-scale

Configures subsecond intervals at which the master VRRP-Ev3 device advertises its existence to the backup routers.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
        <vrid>2</vrid>
        <advertisement-interval-scale>5</advertisement-interval-scale>
      </vrrpe>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*advertisement-interval-scale*

Specifies the number representing the scale of the division of a configured interval at which the master VRRP-Ev3 device advertises its existence to the backup devices. The valid values are 1, 2, 5 and 10

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/arp

Enables specification of an IPv4 address for an Address Resolution Protocol (ARP) entry.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
        <vrid>2</vrid>
        <arp>
          <unicast-request>
            <receive></receive>
          </unicast-request>
        </arp>
      </vrrpe>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*  
Specifies the RBridge ID

*name*  
Specifies the VLAN ID

**receive**

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/backup-advertisement-interval

Configures the interval at which backup VRRP routers advertise their existence to the master router.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
        <vrid>2</vrid>
        <backup-advertisement-interval>100</backup-advertisement-interval>
      </vrrpe>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*backup-advertisement-interval*

Specifies the interval at which a backup VRRP router advertises its existence to the master router. The value can range from 60 through 3600 seconds. The default interval is 60 seconds

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/enable

Enables a VRRP-E session.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
        <vrid>2</vrid>
        <enable></enable>
      </vrrpe>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- name*  
Specifies the VE interface number
- vrid*  
Specifiesw the VRRP number
- enable**  
Enables a VRRP-E session

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/description

Configures interface specific description.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
        <vrid>2</vrid>
        <description>vrrpextended</description>
      </vrrpe>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- name*  
Specifies the VLAN ID
- vrid*  
Virtual router identifier
- description*  
Specifies interface specific description

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/hold-time

Sets the time that a previously down backup VRRP router, which also must have a higher priority than the current master VRRP router, will wait before assuming mastership of the virtual router.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
        <vrid>2</vrid>
        <hold-time>100</hold-time>
      </vrrpe>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*vrid*

Specifies the Virtual router identifier

*hold-time*

Specifies the time a formerly down backup router waits before assuming mastership of the virtual router. The value can range from 1 through 3600 seconds. The default value is 0

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/preempt-mode

Enables preempt mode for a VRRP router session.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
        <vrid>2</vrid>
        <preempt-mode></preempt-mode>
      </vrrpe>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*vrid*

Specifies the Virtual router identifier

*preempt-mode*

Enables preempt mode for a VRRP router session



## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/priority

Sets the priority of a physical router in a VRRP router group.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
        <vrid>2</vrid>
        <priority>100</priority>
      </vrrpe>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*vrid*

Specifies the Virtual router identifier

*priority*

Specifies the priority of a physical router in a virtual router group. Higher numbers have priority over lower numbers. The value can range from 1 to 254. The default value is 1

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/short-path-forwarding

Enables short-path forwarding on a VRRP router.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
        <vrid>2</vrid>
        <short-path-forwarding>
          <basic></basic>
          <revert-priority>1</revert-priority>
        </short-path-forwarding>
      </vrrpe>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*vrid*

Specifies the Virtual router identifier

*revert-priority*

Allows additional control over short-path-forwarding on a backup router. If you configure this option, the revert-priority number acts as a threshold for the current priority of the session, and only if the current priority is higher than the revert-priority will the backup router be able to route frames. The value can range from 1 through 254

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/track

Enables VRRP tracking for a specified interface. VRRP Extended (VRRP-E) sessions can track a specified interface or a network.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
        <vrid>2</vrid>
        <track>
          <interface>
            <interface-type>tengigabitethernet</interface-type>
            <interface-name>1/0/5</interface-name>
            <track-priority>2</track-priority>
          </interface>
        </track>
      </vrrpe>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VLAN ID

*vrid*

Specifies the Virtual router identifier

*interface-type*

Specifies the interface type

*interface-name*

Specifies the interface name

*track-priority*

Specifies the priority value. The value can range from 1 through 254

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/virtual-ip

Configures a virtual IPv4 address for the virtual router.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>9</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>400</name>
      <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
        <vrid>45</vrid>
        <virtual-ip>
          <virtual-ipaddr>42.32.25.55</virtual-ipaddr>
        </virtual-ip>
      </vrrpe>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrid*

Specifies the Virtual router identifier

*virtual-ipaddr*

Specifies the Virtual IPv4 address of the virtual router

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-extended-group/virtual-mac

Enables generation of a virtual MAC with 0 IP hash.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <vrrpe xmlns="urn:brocade.com:mgmt:brocade-vrrp">
        <vrid>2</vrid>
        <virtual-mac>02e0.5200.00xx</virtual-mac>
      </vrrpe>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- name*  
Specifies the VLAN ID
- vrid*  
Specifies the Virtual router identifier
- virtual-mac*  
Specifies virtual MAC address

## rbridge-id/{rbridge-number}/interface/ve/{vlan-id}/vrrp-group

Enables VRRP configuration.

### Usage

```
rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <ve>
      <name>1</name>
      <vrrp xmlns="urn:brocade.com:mgmt:brocade-vrrp">
        <vrid>1</vrid>
        <version>2</version>
      </vrrp>
    </ve>
  </interface>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the VE interface name

*vrid*

Specifies the Virtual Router Identifier. The value can range from 1 through 255

*version*

Specifies the VRRP version. The value can be 2 or 3

## rbridge-id/{rbridge-number}/ip/anycast-gateway-mac

Configures the IPv4 anycast-gateway MAC address.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>57</rbridge-id>
  <ip>
    <static-ag-ip-config xmlns="urn:brocade.com:mgmt:brocade-vrrp">
      <anycast-gateway-mac>
        <ip-anycast-gateway-mac>0000.abba.baba</ip-anycast-gateway-mac>
      </anycast-gateway-mac>
    </static-ag-ip-config>
  </ip>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*ip-anycast-gateway-mac*

Specifies the IPv4 anycast-gateway MAC address

**default-mac**

Sets the IPv4 anycast-gateway MAC address to 02e0.5200.0100

*mac-address*

Specifies a non-default IPv4 anycast-gateway MAC address

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/ip/as-path/access-list

Configures an AS-path access control list (ACL), specifies the community name, and whether to permit or deny traffic.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ip>
    <as-path xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
      <access-list>
        <name>acl14</name>
        <seq-keyword>seq</seq-keyword>
        <instance>5</instance>
        <ip-action>permit</ip-action>
        <ip-reg-expr>allow</ip-reg-expr>
      </access-list>
    </as-path>
  </ip>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the ACL name

*seq-keyword*

*instance*

Specifies the sequence number. The value can range from 1 through 65535

*ip-action*

*ip-reg-expr*



## rbridge-id/{rbridge-number}/ip/community-list/extended

Configures a community access control list (ACL), specifies the community name, and whether to permit or deny traffic, including through the use of a regular expression.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ip>
    <community-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
      <extended>
        <name>commlist1</name>
        <seq-keyword>seq</seq-keyword>
        <instance>5</instance>
        <ip-action>permit</ip-action>
        <ip-community-reg-expr>permit</ip-community-reg-expr>
      </extended>
    </community-list>
  </ip>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the community list name. The value can range from 1 through 32 ASCII characters

*seq-keyword*

*instance*

Specifies the sequence number. The value can range from 1 through 65535

*ip-action*

*ip-community-reg-expr*

## rbridge-id/{rbridge-number}/ip/community-list/standard

Configures a community access control list (ACL), specifies the community number or type, and whether to permit or deny traffic.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ip>
    <community-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
      <standard>
        <name>commlist2</name>
        <seq-keyword>seq</seq-keyword>
        <instance>5</instance>
        <ip-action>permit</ip-action>
        <std-community-expr>local-as no-export </std-community-expr>
      </standard>
    </community-list>
  </ip>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the community list name. The value can range from 1 through 32 ASCII characters

*seq-keyword*

*instance*

*ip-action*

*std-community-expr*

## rbridge-id/{rbridge-number}/ip/dhcp/relay/information/option

Enables insertion and removal of DHCP relay information option-82, present in the DHCP client and server packets respectively.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ip>
    <dhcp xmlns="urn:brocade.com:mgmt:brocade-dhcp">
      <relay>
        <information>
          <option></option>
        </information>
      </relay>
    </dhcp>
  </ip>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**option**

Enables DHCP relay information option

### History

| Release version | Command history                  |
|-----------------|----------------------------------|
| 7.0.0           | This Netconf call was introduced |

## rbridge-id/{rbridge-number}/ip/extcommunity-list

Sets a BGP extended community filter.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ip>
    <extcommunity-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
      <extcommunity-list-num>1</extcommunity-list-num>
      <ext-community-action>permit</ext-community-action>
      <ext-community-expr>rt 2004:33</ext-community-expr>
    </extcommunity-list>
  </ip>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*extcommunity-list-num*

Specifies an Extended Community list Instance number

*ext-community-action*

Specifies the action

**deny**

Denies access for a matching condition

**permit**

Permits access for a matching condition

*ext-community-expr*

Specifies the extended community type

**rt value**

Specifies the route target (RT) extended community. Specifies the RT extended community value

**soo value**

Specifies the site of origin (SOO) extended community. Specifies the SOO extended community value

## rbridge-id/{rbridge-number}/ip/import/routes

Leaks IPv4 routes from the specified VRF to the default VRF, based on match criteria defined in routemap.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ip>
    <import xmlns="urn:brocade.com:mgmt:brocade-rtm">
      <routes>
        <src-vrf>vrf1</src-vrf>
        <route-map>routemap1</route-map>
      </routes>
    </import>
  </ip>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*src-vrf*

Specifies the VRF instance from which to leak routes to the default VRF

*route-map*

Specifies the map name to use for route-leaking match criteria

## rbridge-id/{rbridge-number}/ip/prefix-list

Configures an IP prefix-list instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ip>
    <prefix-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
      <name>prefix1</name>
      <seq-keyword>seq</seq-keyword>
      <instance>3</instance>
      <action-ipp>deny</action-ipp>
      <prefix-ipp>10.0.0.0/8</prefix-ipp>
      <ge-ipp>20</ge-ipp>
      <le-ipp>28</le-ipp>
    </prefix-list>
  </ip>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the prefix list name

*seq-keyword*

*instance*

Specifies the sequence number. The value can range from

*action-ipp*

*prefix-ipp*

*ge-ipp*

Specifies the minimum IP prefix length

*le-ipp*

Specifies the maximum IP prefix length

## rbridge-id/{rbridge-number}/ip/receive

Configures IP receive access group.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ip>
    <receive xmlns="urn:brocade.com:mgmt:brocade-ip-access-list">
      <access-group>
        <ip-access-list>ipv4-receive-acl-example</ip-access-list>
        <ip-direction>in</ip-direction>
      </access-group>
    </receive>
  </ip>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- ip-access-list*  
Specifies IP access list name
- ip-direction*  
Specifies ingress direction

## rbridge-id/{rbridge-number}/ip/route

Adds a static route to the IP routing tables.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ip>
    <rtm-config xmlns="urn:brocade.com:mgmt:brocade-rtm">
      <route>
        <static-route-nh>
          <static-route-dest>10.95.7.0/24</static-route-dest>
          <static-route-next-hop>10.95.6.157</static-route-next-hop>
          <route-attributes>
            <metric>1</metric>
            <distance>20</distance>
            <tag>0</tag>
          </route-attributes>
        </static-route-nh>
      </route>
    </rtm-config>
  </ip>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*static-route-dest*

Specifies the destination IPv4 address and mask

*static-route-next-hop*

Specifies the IPv4 address of the next hop

*metric*

Specifies the cost metric of the route. The value can range from 1 through 16. The default value is 1

*distance*

Specifies the administrative distance of the route. When comparing otherwise equal routes to a destination, a Brocade device prefers lower administrative distances over higher ones. The value can range from 1 through 255. The default value is 1

*tag*

Specifies the tag value of the route to use for route filtering with a route map. The value can range from 0 through 4294967295



## rbridge-id/{rbridge-number}/ip/route/next-hop-vrf

Enables the leaking of static routes from one VRF instance to another.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ip>
    <rtm-config xmlns="urn:brocade.com:mgmt:brocade-rtm">
      <route>
        <static-route-oif-vrf>
          <static-route-next-vrf-dest>1.1.1.0/24</static-route-next-vrf-
dest>
          <next-hop-vrf>vrfl</next-hop-vrf>
          <static-route-oif-type>tengigabitethernet</static-route-oif-type>
          <static-route-oif-name>1/0/5</static-route-oif-name>
        </static-route-oif-vrf>
      </route>
    </rtm-config>
  </ip>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*static-route-next-vrf-dest*

Specifies the IPv4 address in dotted-decimal notation with a CIDR notation mask

*next-hop-vrf*

Specifies the name of the target VRF instance to which route leaking is enabled

*static-route-oif-type*

Next-hop IP address in the target VRF instance

**<N>gigabitethernet**

Represents a valid, physical Ethernet subtype for all available Ethernet speeds. Enter ? to see which interface subtypes are available. Replace **<N>gigabitethernet** with the desired operand (for example, **tengigabitethernet** specifies a 10-Gb Ethernet port). The use of gigabitethernet without a speed value specifies a 1-Gb Ethernet port

*static-route-oif-name*

Specifies the ethernet name

## rbridge-id/{rbridge-number}/ip/route/static/bfd

Configures Bidirectional Forwarding Detection (BFD) session parameters for IP static routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ip>
    <rtm-config xmlns="urn:brocade.com:mgmt:brocade-rtm">
      <route>
        <static>
          bfd
          <bfd-static-route>
            <bfd-static-route-dest>1.1.1.1</bfd-static-route-dest>
            <bfd-static-route-src>10.10.10.10</bfd-static-route-src>
            <bfd-interval-attributes>
              <interval>55</interval>
              <min-rx>55</min-rx>
              <multiplier>4</multiplier>
            </bfd-interval-attributes>
          </bfd-static-route>
        </bfd>
      </static>
    </route>
  </rtm-config>
</ip>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*bfd-static-route-dest*

Specifies the IP address of BFD neighbor

*bfd-static-route-src*

Specifies the source IP address

*interval*

Specifies the interval a device waits to send a control packet to BFD peers. The value can range from 50 to 30000 milliseconds

*min-rx*

Specifies the interval a device waits to receive a control packet from BFD peers. The value can range from 50 to 30000 milliseconds

*multiplier*

Specifies the number of consecutive BFD control packets that must be missed from a BFD peer before BFD determines that the connection to that peer is not operational. The value can range from 3 to 50

## rbridge-id/{rbridge-number}/ip/route/static/bfd/holdover-interval

Sets the time interval for which BFD session DOWN notifications are delayed before an IP static route is notified that a BFD session is down.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ip>
    <rtm-config xmlns="urn:brocade.com:mgmt:brocade-rtm">
      <route>
        <static>
          bfd
          <holdover-interval>1</holdover-interval>
        </bfd>
      </static>
    </route>
  </rtm-config>
</ip>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*holdover-interval*

Specifies BFD holdover-time interval in seconds. The value can range from 1 through 30. The default interval is 0

## rbridge-id/{rbridge-number}/ip/router-id

Configures router ID.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ip>
    <rtm-config xmlns="urn:brocade.com:mgmt:brocade-rtm">
      <router-id>1.1.1.1</router-id>
    </rtm-config>
  </ip>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*router-id*

Specifies the IPv4 address that you want as the router ID

## rbridge-id/{rbridge-number}/ipv6/anycast-gateway-mac

Configures the IPv6 anycast-gateway MAC address.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <static-ag-ipv6-config xmlns="urn:brocade.com:mgmt:brocade-vrrp">
      <anycast-gateway-mac>
        <ipv6-anycast-gateway-mac>0000.2586.3652</ipv6-anycast-gateway-mac>
      </anycast-gateway-mac>
    </static-ag-ipv6-config>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*ipv6-anycast-gateway-mac*

Specifies the MAC address

**default-mac**

Sets the IPv6 anycast-gateway MAC address to 02e0.5200.0200

*mac-address*

Specifies a non-default IPv6 anycast-gateway MAC address

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/ipv6/import/routes

Leaks IPv6 routes from the specified VRF to the default VRF, based on match criteria defined in routemap.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <import xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm">
      <routes>
        <src-vrf>vrf1</src-vrf>
        <route-map>routemap</route-map>
      </routes>
    </import>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*src-vrf*

Specifies the VRF instance from which to leak routes to the default VRF

*route-map*

Specifies the map name to use for route-leaking match criteria

## rbridge-id/{rbridge-number}/ipv6/nd/dad/time

Configures the retransmit time interval for IPv6 Neighbor Discovery Neighbor Solicitation (NS) messages that are sent as part of duplicate address detection (DAD).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <ipv6-global-cmds xmlns="urn:brocade.com:mgmt:brocade-ipv6-nd-ra">
      <nd-global>
        <dad>
          <global-dad-time>2</global-dad-time>
        </dad>
      </nd-global>
    </ipv6-global-cmds>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*global-dad-time*

Specifies the time in seconds. The value can range from 1 through 5. The default time is 1 second

## rbridge-id/{rbridge-number}/ipv6/prefix-list

Configures IPv6 prefix lists for use in basic traffic filtering.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <prefix-list xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
      <name>prefix1</name>
      <seq-keyword>seq</seq-keyword>
      <instance>2</instance>
      <action-ipp>deny</action-ipp>
      <ipv6-prefix-ipp>2001::/16</ipv6-prefix-ipp>
      <ge-ipp>90</ge-ipp>
      <le-ipp>100</le-ipp>
    </prefix-list>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the prefixes list name. Ther values can be between 1 and 32 characters. Although the first character must be alphabetic, the others can be alphanumeric, underscores (\_) or minus signs (-)

*seq-keyword*

*instance*

Specifies an IPv6 prefix list sequence number

*action-ipp*

*ipv6-prefix-ipp*

*ge-ipp*

*le-ipp*



## rbridge-id/{rbridge-number}/ipv6/protocol/vrrp

Globally enables IPv6 VRRPv3.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <ipv6>  
    <proto-vrrpv3 xmlns="urn:brocade.com:mgmt:brocade-vrrpv3">  
      <vrrp></vrrp>  
    </proto-vrrpv3>  
  </ipv6>  
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- vrrp**  
Enables IPv6 VRRPv3

## rbridge-id/{rbridge-number}/ipv6/protocol/vrrp-extended

Globally enables IPv6 VRRP-Ev3.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <proto-vrrpv3 xmlns="urn:brocade.com:mgmt:brocade-vrrpv3">
      <vrrp-extended></vrrp-extended>
    </proto-vrrpv3>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**vrrp-extended**

Enables IPv6 VRRP-Ev3

## rbridge-id/{rbridge-number}/ipv6/receive

Configures IPv6 receive Access group.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <receive xmlns="urn:brocade.com:mgmt:brocade-ipv6-access-list">
      <access-group>
        <ipv6-access-list>ipv6-receive-acl-example</ipv6-access-list>
        <ip-direction>in</ip-direction>
      </access-group>
    </receive>
  </ipv6>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- ipv6-access-list*  
Specifies IPv6 receive access group
- ip-direction*  
Specifies ingress direction

## rbridge-id/{rbridge-number}/ipv6/route

Configures a static IPv6 route for an interface, with a destination network, a next-hop gateway, and an optional administrative distance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <route xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm">
      <static-route-oif>
        <static-route-dest>2004:384d::23:24/128</static-route-dest>
        <static-route-oif-type>fortygigabitethernet</static-route-oif-type>
        <static-route-oif-name>1/0/50</static-route-oif-name>
        <route-attributes>
          <metric>1</metric>
          <distance>50</distance>
          <tag>1</tag>
        </route-attributes>
      </static-route-oif>
    </route>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*static-route-dest*

Specifies the destination IPv6 prefix

*static-route-oif-type*

*static-route-oif-name*

*metric*

Specifies a value that the Layer 3 switch uses to compare this route to other static routes in the IPv6 static route table that have the same destination. The value can range from 1 through 16. The default value is 1

*distance*

Specifies an administrative distance. The value can range from 1 through 255. The default value is 1

*tag*

Specifies a tag value for the route. The value can range from 0 through 4294967295. The default value is 0

## rbridge-id/{rbridge-number}/ipv6/route/next-hop-vrf

Configures a static IPv6 route for an interface, with a destination network and a next-hop gateway.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <route xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm">
      <ipv6-static-route-oif-vrf>
        <static-route-next-vrf-dest>2004:384d::23:24/128</static-route-next-
vrf-dest>
        <next-hop-vrf>vrf1</next-hop-vrf>
        <static-route-oif-type>tengigabitethernet</static-route-oif-type>
        <static-route-oif-name>1/0/11</static-route-oif-name>
      </ipv6-static-route-oif-vrf>
    </route>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*static-route-next-vrf-dest*

Specifies the IPv6 address of the next-hop gateway

*next-hop-vrf*

Specifies a VRF instance and a next-hop IPv6 address

*static-route-oif-type*

Represents a valid, physical Ethernet subtype for all available Ethernet speeds. Enter ? to see which interface subtypes are available. Replace **<N>gigabitethernet** with the desired operand (for example, **tengigabitethernet** specifies a 10-Gb Ethernet port). The use of gigabitethernet without a speed value specifies a 1-Gb Ethernet port

*static-route-oif-name*

Specifies the ethernet name

## rbridge-id/{rbridge-number}/ipv6/route/static/bfd/holdover-interval

Sets the time interval for which BFD session DOWN notifications are delayed before an IPv6 static route is notified that a BFD session is down.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <route xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm">
      <static>
        <bfd>
          <ipv6-holdover-interval>1</ipv6-holdover-interval>
        </bfd>
      </static>
    </route>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*ipv6-holdover-interval*

Specifies BFD holdover-time interval in seconds. The values can range from 1 through 30. The default interval is 0

## rbridge-id/{rbridge-number}/ipv6/router/ospf

Enables and configures the Open Shortest Path First version 3 (OSPFv3) routing protocol over VRF.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <ipv6>  
    <router>  
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">  
        <vrf>default-vrf</vrf>  
      </ospf>  
    </router>  
  </ipv6>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the namer of the VRF

## rbridge-id/{rbridge-number}/ipv6/router/ospf/area

Configures the Open Shortest Path First (OSPF) router area id.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <area>
          <area-id>0</area-id>
        </area>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*area-id*

Specifies the area address

*A.B.C.D*

Specifies area address in dotted decimal format

Specifies area address in decimal format



# rbridge-id/{rbridge-number}/ipv6/router/ospf/area/authentication

Enables authentication for an Open Shortest Path First (OSPF) area.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <area>
          <area-id>0</area-id>
          <authentication>
            <ipsec-auth-key-config>
              <spi>750</spi>
              <ah>hmac-md5</ah>
              <ah-no-encrypt></ah-no-encrypt>
              <ah-key>abcef12345678901234fedcba098765432109876</ah-key>
            </ipsec-auth-key-config>
          </authentication>
        </area>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*area-id*

Specifies the area address

*spi*

Specifies the Security Policy Index (SPI) value. The value can range from decimal numbers 512 through 4294967295

*ah*

Specifies authentication header (ah) as the protocol to provide packet-level security

**hmac-md5**

Enables Hashed Message Authentication Code (HMAC) Message Digest 5 (MD5) authentication on the OSPF area

**hmac-sha1**

Enables HMAC Secure Hash Algorithm 1 (SHA-1) authentication on the OSPF area

*esp*

Specifies Encapsulating Security Payload (ESP) as the protocol to provide packet-level security

**null**

Specifies that the ESP payload is not encrypted

*ah-no-encrypt*

The 40-character key is not encrypted upon either its entry or its display

*ah-key*

Specifies the 40 hexadecimal character key

## rbridge-id/{rbridge-number}/ipv6/router/ospf/area/nssa

Creates a not-so-stubby area (NSSA) or modifies its parameters

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <area>
          <area-id>1.1.1.1</area-id>
          <nssa>
            <area-default-information-originate>
              <area-default-information-originate-metric>12</area-
default-information-originate-metric>
              <area-default-information-originate-metric-type>type1</
area-default-information-originate-metric-type>
            </area-default-information-originate>
          </nssa>
        </area>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- vrf*  
Specifies the VRF name
- area-id*  
Specifies the area address
- area-default-information-originate-metric*
- area-default-information-originate-metric-type*

## rbridge-id/{rbridge-number}/ipv6/router/ospf/area/range

Specifies area range parameters on an Area Border Router (ABR).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <area>
          <area-id>1.1.1.1</area-id>
          <area-range>
            <range-address>2004:384d::23:24/128</range-address>
            <range-effect>advertise</range-effect>
            <range-cost>1</range-cost>
          </area-range>
        </area>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *vrf*

Specifies the VRF name

#### *area-id*

Specifies the area address

#### *range-address*

Specifies the IPv6 address and mask portion of the range

#### *range-effect*

Specifies the range effect

##### **advertise**

Sets the address range status to advertise and generates a Type 3 summary LSA

##### **not-advertise**

Sets the address range status to DoNotAdvertise; the Type 3 LSA is suppressed, and the component networks remain hidden from other networks

#### *range-cost*

Sets the cost value for the area range. The value can range from 1 to 6777214

## rbridge-id/{rbridge-number}/ipv6/router/ospf/area/stub

Creates a stub area or modifies its parameters.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>vrf1</vrf>
        <area>
          <area-id>1</area-id>
          <stub>
            <stub-area-no-summary></stub-area-no-summary>
            <stub-area-metric>12</stub-area-metric>
          </stub>
        </area>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*area-id*

Specifies the area address in dotted decimal format (A.B.C.D) or in decimal format

*stub-area-no-summary*

When configured on the ABR, prevents any Type 3 and Type 4 summary LSAs from being injected into the area.

*stub-area-metric*

Specifies the additional cost for using a route to or from this area. The value can range from 3 through 1048575

## rbridge-id/{rbridge-number}/ipv6/router/ospf/area/virtual-link

Creates virtual links for an area.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>vrfl</vrf>
        <area>
          <area-id>1</area-id>
          <normal></normal>
          <virtual-link>
            <virtual-link-neighbor>1.1.1.1</virtual-link-neighbor>
          </virtual-link>
        </area>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*area-id*

Specifies the area address in dotted decimal format (A.B.C.D) or in decimal format

*virtual-link-neighbor*

Specifies the virtual link neighbor router ID

## rbridge-id/{rbridge-number}/ipv6/router/ospf/area/virtual-link/dead-interval

Configures how long a neighbor router waits for a hello packet from the current router before declaring the router down.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>vrf1</vrf>
        <area>
          <area-id>1</area-id>
          <virtual-link>
            <virtual-link-neighbor>1.1.1.1</virtual-link-neighbor>
            <link-properties>
              <link-interval-properties>
                <dead-interval>45</dead-interval>
              </link-interval-properties>
            </link-properties>
          </virtual-link>
        </area>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*area-id*

Specifies the area address in dotted decimal format (A.B.C.D) or in decimal format

*virtual-link-neighbor*

Specifies the virtual link neighbor router ID

*dead-interval*

Specifies how long a neighbor router waits for a hello packet from the current router before declaring the router down. This value must be the same for all routers and access servers that are attached to a common network. The values can range from 3 through 65535 seconds. The default is interval is 40 seconds

## rbridge-id/{rbridge-number}/ipv6/router/ospf/area/virtual-link/hello-interval

Configures the time between hello packets that the router sends on an interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>vrfl</vrf>
        <area>
          <area-id>1</area-id>
          <normal></normal>
          <virtual-link>
            <virtual-link-neighbor>1.1.1.1</virtual-link-neighbor>
            <link-properties>
              <link-interval-properties>
                <hello-interval>13</hello-interval>
              </link-interval-properties>
            </link-properties>
          </virtual-link>
        </area>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*area-id*

Specifies the area address in dotted decimal format (A.B.C.D) or in decimal format

*virtual-link-neighbor*

Specifies the virtual link neighbor router ID

*hello-interval*

Specifies the time between hello packets that the router sends on an interface. The value must be the same for all routers and access servers that are attached to a common network. The values can range from 1 through 65535 seconds. The default interval is 10 seconds



# rbridge-id/{rbridge-number}/ipv6/router/ospf/area/virtual-link/hello-jitter

Configures allowed jitter between hello packets.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>vrf1</vrf>
        <area>
          <area-id>1</area-id>
          <normal></normal>
          <virtual-link>
            <virtual-link-neighbor>1.1.1.1</virtual-link-neighbor>
            <link-properties>
              <link-interval-properties>
                <hello-jitter>15</hello-jitter>
              </link-interval-properties>
            </link-properties>
          </virtual-link>
        </area>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*area-id*

Specifies the area address in dotted decimal format (A.B.C.D) or in decimal format

*virtual-link-neighbor*

Specifies the virtual link neighbor router ID

*hello-jitter*

Specifies the allowed jitter between hello packets. The values can range from 1 through 50 percent. The default value is 10 percent

## rbridge-id/{rbridge-number}/ipv6/router/ospf/auto-cost

Configures reference bandwidth.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <auto-cost>
          <reference-bandwidth>20</reference-bandwidth>
        </auto-cost>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*reference-bandwidth*

Specifies reference bandwidth in Mbps. The value can range from 1 through 4294967

## rbridge-id/{rbridge-number}/ipv6/router/ospf/bfd

Enables Bidirectional Forwarding Detection (BFD).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <bfd>
          <bfd-enable></bfd-enable>
        </bfd>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*bfd-enable*

Enables Bidirectional Forwarding Detection

## rbridge-id/{rbridge-number}/ipv6/router/ospf/bfd/holdover-interval

Sets the time interval for which OSPF or BGP routes are withdrawn after a BFD session is declared down.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <bfd>
          <bfd-holdover-interval>1</bfd-holdover-interval>
        </bfd>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*bfd-holdover-interval*

Specifies BFD holdover-time interval in seconds. The value can range from from 1 through 20. The default value is 0

# rbridge-id/{rbridge-number}/ipv6/router/ospf/database-overflow-interval

Configures frequency for monitoring database overflow.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <database-overflow-interval>11</database-overflow-interval>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*database-overflow-interval*

Specifies the time interval at which the device checks to see if the overflow condition has been eliminated. The interval can range from 0 through 86400 seconds (24 hours). The default interval is 10 seconds

# rbridge-id/{rbridge-number}/ipv6/router/ospf/default-information-originate

Controls distribution of default information to an OSPF router.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <global-default-information-originate>
          <global-default-information-originate-always></global-default-
information-originate-always>
          <global-default-information-originate-metric>500</global-default-
information-originate-metric>
          <global-default-information-originate-metric-type>type1</global-
default-information-originate-metric-type>
          </global-default-information-originate>
        </ospf>
      </router>
    </ipv6>
  </rbridge-id>
```

## Parameters

### *rbridge-id*

Specifies the RBridge ID

### *vrf*

Specifies the VRF name

### *global-default-information-originate-always*

Always advertises the default route. If the route table manager does not have a default route, the router advertises the route as pointing to itself

### *global-default-information-originate-metric*

Used for generating the default route, this parameter specifies the cost for reaching the rest of the world through this route. The value can range from 1 through 65535. The default value is 10

### *global-default-information-originate-metric-type*

Specifies how the cost of a neighbor metric is determined

#### **type-1**

The metric of a neighbor is the cost between itself and the router plus the cost of using this router for routing to the rest of the world

#### **type-2**

The metric of a neighbor is the total cost from the redistributing routing to the rest of the world

## rbridge-id/{rbridge-number}/ipv6/router/ospf/default-metric

Sets the default metric value for the OSPF or OSPFv3 routing protocol.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <default-metric>200</default-metric>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*default-metric*

Specifies the OSPF routing protocol metric value. The value can range from 1 through 65535

## rbridge-id/{rbridge-number}/ipv6/router/ospf/default-passive-interface

Marks all OSPF and OSPFv3 interfaces passive by default.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <default-passive-interface></default-passive-interface>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

**default-passive-interface**

Marks all OSPF and OSPFv3 interfaces passive by default



## rbridge-id/{rbridge-number}/ipv6/router/ospf/distance

Configures an administrative distance value for OSPF and OSPFv3 routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <distance>
          <route-type>external</route-type>
          <distance-value>20</distance-value>
        </distance>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*route-type*

Specifies the route type

**external**

Sets the distance for routes learned by redistribution from other routing domains

**inter-area**

Sets the distance for all routes from one area to another area

**intra-area**

Sets the distance for all routes within an area

*distance-value*

Specifies the administrative distance value assigned to OSPF routes. The value can range from 1 through 255. The default value is 110

## rbridge-id/{rbridge-number}/ipv6/router/ospf/distribute-list/prefix-list

Applies a prefix list to OSPF for IPv6 routing updates. Only routes permitted by the prefix-list can go into the routing table

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <distribute-list>
          <prefix-list>
            <distribute-list-prefix-list-name>name</distribute-list-
prefix-list-name>
            <distribute-list-prefix-list-in></distribute-list-prefix-
list-in>
          </prefix-list>
        </distribute-list>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*distribute-list-prefix-list-name*

Specifies the name of the prefix list

*distribute-list-prefix-list-in*

Applies the prefix list to incoming routing updates on the specified interface

# rbridge-id/{rbridge-number}/ipv6/router/ospf/distribute-list/route-map

Creates a route-map distribution list.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <distribute-list>
          <route-map>
            <distribute-list-route-map-name>route</distribute-list-route-
map-name>
            <distribute-list-route-map-in></distribute-list-route-map-in>
          </route-map>
        </distribute-list>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*distribute-list-route-map-name*

Specifies the route map name

*distribute-list-route-map-in*

Creates a distribution list for an inbound route map

## rbridge-id/{rbridge-number}/ipv6/router/ospf/external-lsdb-limit

Configures the maximum size of the external link state database (LSDB).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <external-lsdb-limit>200000</external-lsdb-limit>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*external-lsdb-limit*

Specifies the maximum size of the external LSDB. The c value can range from 1 through 250000. The default value is 250000

## rbridge-id/{rbridge-number}/ipv6/router/ospf/graceful-restart/helper/disable

Disables the OSPFv3 graceful restart (GR) helper capability.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <graceful-restart>
          <helper>
            <graceful-restart-helper-disable></graceful-restart-helper-
disable>
          </helper>
        </graceful-restart>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*graceful-restart-helper-disable*

Disables the OSPFv3 GR helper capability

## rbridge-id/{rbridge-number}/ipv6/router/ospf/graceful-restart/ helper/strict-lsa-checking

Enables the OSPFv3 GR helper mode with strict link-state advertisement (LSA) checking

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <graceful-restart>
          <helper>
            <graceful-restart-helper-strict-lsa-checking></graceful-
restart-helper-strict-lsa-checking>
          </helper>
        </graceful-restart>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*graceful-restart-helper-strict-lsa-checking*

Enables the OSPFv3 GR helper mode with strict link-state advertisement (LSA) checking

## rbridge-id/{rbridge-number}/ipv6/router/ospf/key-add-remove-interval

Alters the timing of the authentication key add-remove interval.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <key-add-remove-interval>10</key-add-remove-interval>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*key-add-remove-interval*

Specifies the add-remove interval in seconds. The value can range from 0 through 14400. The default interval is 300

## rbridge-id/{rbridge-number}/ipv6/router/ospf/key-rollover-interval

Alters the timing of the existing configuration changeover.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <key-rollover-interval>350</key-rollover-interval>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*key-rollover-interval*

Specifies the key-rollover-interval in seconds. The value can range from 0 through 14400. The default value is 300



## rbridge-id/{rbridge-number}/ipv6/router/ospf/log/adjacency

Controls the generation of OSPFv3 logs. Specifies the logging of essential OSPFv3 neighbor state changes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <log>
          <log-adjacency>
            <log-adjacency-dr-only></log-adjacency-dr-only>
          </log-adjacency>
        </log>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*log-adjacency-dr-only*

Specifies the logging of designated router interfaces

## rbridge-id/{rbridge-number}/ipv6/router/ospf/log/all

Controls the generation of OSPFv3 logs. Specifies the logging of all syslog messages

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <log>
          <log-all></log-all>
        </log>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*log-all*

Specifies the logging of all syslog messages

## rbridge-id/{rbridge-number}/ipv6/router/ospf/log/bad-packet

Controls the generation of OSPFv3 logs. Specifies the logging of bad OSPFv3 packets.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <log>
          <log-bad-packet>
            <log-bad-packet-checksum></log-bad-packet-checksum>
          </log-bad-packet>
        </log>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*log-bad-packet-checksum*

Specifies all OSPFv3 packets that have checksum errors

## rbridge-id/{rbridge-number}/ipv6/router/ospf/log/database

Controls the generation of OSPFv3 logs. Specifies the logging of OSPFv3 LSA-related information.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <log>
          <log-database></log-database>
        </log>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*log-database*

Specifies the logging of OSPFv3 LSA-related information.

## rbridge-id/{rbridge-number}/ipv6/router/ospf/log/retransmit

Controls the generation of OSPFv3 logs. Specifies the logging of OSPFv3 retransmission activities.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <log>
          <log-retransmit></log-retransmit>
        </log>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*log-retransmit*

Specifies the logging of OSPFv3 retransmission activities.

## rbridge-id/{rbridge-number}/ipv6/router/ospf/max-metric/router-lsa/all-lsas

Advertises the maximum metric value in different Link State Advertisements (LSAs).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <max-metric>
          <router-lsa>
            <all-lsas></all-lsas>
          </router-lsa>
        </max-metric>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

**all-lsas**

Sets the summary-lsa and external-lsa optional parameters to the corresponding default max-metric value.

## rbridge-id/{rbridge-number}/ipv6/router/ospf/max-metric/router-lsa/external-lsa

Configures the maximum metric value for all external type-5 and type-7 LSAs.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <max-metric>
          <router-lsa>
            <external-lsa>
              <external-lsa-value>25</external-lsa-value>
            </external-lsa>
          </router-lsa>
        </max-metric>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*external-lsa-value*

Specifies the maximum metric value for all external type-5 and type-7 LSAs. The value can range from 1 through 16777214 (0x00001 - 0x00FFFFE). The default value is 16711680 (0x00FF0000)

## rbridge-id/{rbridge-number}/ipv6/router/ospf/max-metric/router-lsa/include-stub

Specifies the advertisement of the maximum metric value for point-to-point and broadcast stub links in the intra-area-prefix LSA.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <max-metric>
          <router-lsa>
            <include-stub></include-stub>
          </router-lsa>
        </max-metric>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

**include-stub**

Configures include-stub for max-metric



## rbridge-id/{rbridge-number}/ipv6/router/ospf/max-metric/router-lsa/on-startup

Applies the configuration change at the next OSPF startup.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <max-metric>
          <router-lsa>
            <on-startup>
              <on-startup-time>10</on-startup-time>
            </on-startup>
          </router-lsa>
        </max-metric>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*on-startup-time*

Sets the time (in seconds) for which the specified links in Router LSAs are advertised when the metric is set to the maximum value of 0xFFFF. The value can range from 5 to 86400

## rbridge-id/{rbridge-number}/ipv6/router/ospf/max-metric/router-lsa/on-startup/wait-for-bgp

Configures the time the OSPFv3 should wait until BGP has finished route table convergence before advertising the links with the normal metric.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <max-metric>
          <router-lsa>
            <on-startup>
              <wait-for-bgp></wait-for-bgp>
            </on-startup>
          </router-lsa>
        </max-metric>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- vrf*  
Specifies the VRF name
- wait-for-bgp**  
Specifies the wait time

## rbridge-id/{rbridge-number}/ipv6/router/ospf/max-metric/router-lsa/summary-lsa

Configures the maximum metric value for all summary type 3 and type 4 LSAs.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <max-metric>
          <router-lsa>
            <summary-lsa>
              <summary-lsa-value>15</summary-lsa-value>
            </summary-lsa>
          </router-lsa>
        </max-metric>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*summary-lsa-value*

Specifies the the maximum metric value for all summary type 3 and type 4 LSAs. The value can range from 1 to 16777214 (0x00001 - 0x00FFFFE). The default value is 16711680 (0x00FF0000)

## rbridge-id/{rbridge-number}/ipv6/router/ospf/maximum-paths

Changes the maximum number of OSPF shared paths.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <maximum-paths>9</maximum-paths>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*maximum-paths*

Specifies the maximum number of paths across which the device balances traffic to a given OSPF destination. The value can range from 1 through 32. The default value is 8

## rbridge-id/{rbridge-number}/ipv6/router/ospf/metric-type

Configures the default metric type for external routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <global-metric-type>type1</global-metric-type>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*global-metric-type*

Specifies the metric type

**type1**

The metric of a neighbor is the cost between itself and the router plus the cost of using this router for routing to the rest of the world

**type2**

The metric of a neighbor is the total cost from the redistributing routing to the rest of the world

## rbridge-id/{rbridge-number}/ipv6/router/ospf/nonstop-routing

Enables nonstop-routing (NSR) for OSPFv3.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <nonstop-routing></nonstop-routing>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

**nonstop-routing**

Enables nonstop-routing (NSR) for OSPFv3

# rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/bgp/metric

Enables route redistribution for BGP routes.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <redistribute>
          <redistribute-bgp>
            <redistribute-bgp-metric>2</redistribute-bgp-metric>
          </redistribute-bgp>
        </redistribute>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*redistribute-bgp-metric*

Specifies the route metric value. The value can range from 0 through 65535

## rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/bgp/metric-type

Enables route redistribution for BGP routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <redistribute>
          <redistribute-bgp>
            <redistribute-bgp-metric-type>type1</redistribute-bgp-metric-
type>
          </redistribute-bgp>
        </redistribute>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*redistribute-bgp-metric-type*

Specifies the metric type

**type1**

Specifies a type 1 external route

**type2**

Specifies a type 2 external route



# rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/bgp/route-map

Enables route redistribution for BGP routes.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <redistribute>
          <redistribute-bgp>
            <bgp-route-map>route1</bgp-route-map>
          </redistribute-bgp>
        </redistribute>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*bgp-route-map*

Specifies a route map to be consulted before a route is added to the routing table

## rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/connected/metric

Enables route distribution for connected routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <redistribute>
          <redistribute-connected>
            <redistribute-connected-metric>34</redistribute-connected-
metric>
          </redistribute-connected>
        </redistribute>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*redistribute-connected-metric*

Specifies route metric value. The value can range from 0 through 65535

## rbridge-id/{rbridge-number}/ipv6/router/ospf/ redistribute/connected/metric-type

Enables route distribution for connected routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <redistribute>
          <redistribute-connected>
            <redistribute-connected-metric-type>type1</redistribute-
connected-metric-type>
          </redistribute-connected>
        </redistribute>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*redistribute-connected-metric-type*

Specifies the type of metric

**type1**

Specifies a type 1 external route

**type2**

Specifies a type 2 external route

## rbridge-id/{rbridge-number}/ipv6/router/ospf/ redistribute/connected/route-map

Enables route distribution for connected routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <redistribute>
          <redistribute-connected>
            <connected-route-map>route2</connected-route-map>
          </redistribute-connected>
        </redistribute>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*connected-route-map*

Specifies the route map name

# rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/ospf/metric

Enables route distribution for OSPF routes.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <redistribute>
          <redistribute-ospf>
            <redistribute-ospf-metric>3</redistribute-ospf-metric>
          </redistribute-ospf>
        </redistribute>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*redistribute-ospf-metric*

Specifies the route metric value. The value can range from 0 through 65535

## rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/ospf/metric-type

Enables route distribution for OSPF routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <redistribute>
          <redistribute-ospf>
            <redistribute-ospf-metric-type>type1</redistribute-ospf-
metric-type>
          </redistribute-ospf>
        </redistribute>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*redistribute-ospf-metric-type*

Specifies the

**type1**

Specifies a type 1 external route

**type2**

Specifies a type 2 external route

# rbridge-id/{rbridge-number}/ipv6/router/ospf/ redistribute/ospf/route-map

Enables route distribution for OSPF routes.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <redistribute>
          <redistribute-ospf>
            <ospf-route-map>route</ospf-route-map>
          </redistribute-ospf>
        </redistribute>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

## Parameters

- rbridge-id*  
Specifies the RBridge ID
- vrf*  
Specifies the VRF name
- ospf-route-map*  
Specifies the route map name

## rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/static/metric

Enables route distribution for static routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <redistribute>
          <redistribute-static>
            <redistribute-static-metric>2</redistribute-static-metric>
          </redistribute-static>
        </redistribute>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*redistribute-static-metric*

Specifies the metric value. The value can range from 0 through 65535



# rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/static/metric-type

Enables route distribution for static routes.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <redistribute>
          <redistribute-static>
            <redistribute-static-metric-type>type2</redistribute-static-
metric-type>
          </redistribute-static>
        </redistribute>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*redistribute-static-metric-type*

Species the type of metric

**type1**

Specifies a type 1 external route

**type2**

Specifies a type 2 external route

## rbridge-id/{rbridge-number}/ipv6/router/ospf/redistribute/static/route-map

Enables route distribution for static routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <redistribute>
          <redistribute-static>
            <static-route-map>route3</static-route-map>
          </redistribute-static>
        </redistribute>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*static-route-map*

Specifies the route map name

## rbridge-id/{rbridge-number}/ipv6/router/ospf/summary-address

Configures route summarization for redistributed routes for an Autonomous System Boundary Router (ASBR).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <summary-address>
          <summary-address-value>2004:384d::23:24/128</summary-address-
value>
        </summary-address>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- vrf*  
Specifies the VRF name
- summary-address-value*  
Specifies the IPv6 summary address

## rbridge-id/{rbridge-number}/ipv6/router/ospf/timers/lsa-group-pacing

Configures Link State Advertisement (LSA) pacing timers.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <timers>
          <lsa-group-pacing>245</lsa-group-pacing>
        </timers>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*lsa-group-pacing*

Specifies the interval at which OSPFv3 LSAs are collected into a group and refreshed, check-summed, or aged by the OSPFv3 process. The value can range from from 10 to 1800 seconds. The default interval is 240 seconds

## rbridge-id/{rbridge-number}/ipv6/router/ospf/timers/spf

Configures Shortest Path First (SPF) timers.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>default-vrf</vrf>
        <timers>
          <spf>
            <spf-delay>200</spf-delay>
            <spf-hold-time>250</spf-hold-time>
          </spf>
        </timers>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*spf-delay*

Specifies initial SPF calculation delay. The value can range from 0 to 65535 seconds. The default value is 5 seconds

*spf-hold-time*

Specifies the minimum hold time between two consecutive SPF calculations. The value can range from 0 to 65535 seconds. The default value is 10 milliseconds

## rbridge-id/{rbridge-number}/logical-chassis

Sets the priority of a switch to assign a specific RBridge ID the role of principal node in a logical chassis cluster.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <logical-chassis xmlns="http://brocade.com/ns/brocade-logical-chassis">  
    <principal-priority>2</principal-priority>  
  </logical-chassis>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*principal-priority*

Specifies the priority for the switch. A lower number means a higher priority. The value can range from 1 through 128

## rbridge-id/{rbridge-number}/maps/email

Configures the domain name for Monitoring and Alerting Policy Suite (MAPS) notifications.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <maps xmlns="urn:brocade.com:mgmt:brocade-maps">
    <email>
      <email-list>
        <email>admin@abc123.com</email>
      </email-list>
    </email>
  </maps>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*email*

Specifies the destination email address for MAPS notifications. Only five or fewer addresses can be configured

## rbridge-id/{rbridge-number}/maps/enable

Enables and sets the policy thresholds for Monitoring and Alerting Policy Suite (MAPS). MAPS policies are designed in a way that thresholds are pre-set to aggressive, moderate, or conservative based on how sensitive the actions are needed.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <maps xmlns="urn:brocade.com:mgmt:brocade-maps">
    <enable>
      <policy>dflt_conservative_policy</policy>
      <actions>RASLOG</actions>
    </enable>
  </maps>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *policy*

Specifies the policy name

##### **dflt\_aggressive\_policy**

Contains rules with very strict thresholds, for environments requiring a pristine fabric

##### **dflt\_moderate\_policy**

Contains rules with thresholds values that lie inbetween aggressive and conservative policies

##### **dflt\_conservative\_policy**

Contains thresholds that are lenient enough to not trigger actions immediately and allows for buffer. This can be used in environments where the elements are resilient and can accommodate for errors

#### *actions*

Defines which actions should be taken by the command policy. The action list names are: RASLOG, SNMP, EMAIL, FENCE, SW\_CRITICAL, SW\_MARGINAL, SFP\_MARGINAL and NONE



## rbridge-id/{rbridge-number}/maps/group

Creates a user-defined logical group for either SFP or Ethernet ports for use in Monitoring and Alerting Priority Suite (MAPS).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>103</rbridge-id>
  <maps xmlns="urn:brocade.com:mgmt:brocade-maps">
    <logicalgroup>
      <logicalgroupname>group1</logicalgroupname>
      <elementtype>interface</elementtype>
      <members>103/4/10</members>
    </logicalgroup>
  </maps>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*logicalgroupname*

Specifies the name of the logical group

*elementtype*

Defines which type of port is assigned to the members of the group

**sfp**

Configures the logical group as SFP ports

**interface**

Configures the logical group as Ethernet ports

*members*

Defines the members of the group. Members are either Ethernet interfaces or SFPs, separated by commas

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/maps/policy

Creates and modifies user-defined policies for Monitoring and Alerting Priority Suite (MAPS).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>106</rbridge-id>  
  <maps xmlns="urn:brocade.com:mgmt:brocade-maps">  
    <policy>  
      <policyname>policy1</policyname>  
    </policy>  
  </maps>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*policyname*

Specifies the name of the user-defined policy

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/maps/relay

Configures the IP relay address for Monitoring and Alerting Policy Suite (MAPS) notifications.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <maps xmlns="urn:brocade.com:mgmt:brocade-maps">
    <relay>
      <hostip>10.25.248.25</hostip>
      <domainname>abc123.com</domainname>
    </relay>
  </maps>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*hostip*

Specifies the destination relay for MAPS notifications

*domainname*

Specifies the destination domain name for MAPS notifications

## rbridge-id/{rbridge-number}/maps/rule

Creates and modifies user-defined rules for Monitoring and Alerting Policy Suite (MAPS)

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>106</rbridge-id>
  <maps xmlns="urn:brocade.com:mgmt:brocade-maps">
    <rule>
      <rulename>rule1</rulename>
      <targetgroup>group1</targetgroup>
      <monitor>SFP_TEMP</monitor>
      <timebase>none</timebase>
      <op>le</op>
      <threshold>10</threshold>
    </rule>
  </maps>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*rulename*

Specifies the name for this user-defined rule

*targetgroup*

Specifies the name of the logical group of ports to which the rule is applied

*monitor*

Specifies the name of the logical group of ports to which the rule is applied

*timebase*

Defines how often the rule is executed

**none**

There is no interval. The rule is always applied

**min**

The response is triggered if the rule is broken once within the last 60 seconds

**hour**

The response is triggered if the rule is broken once within the last 60 minutes

**day**

The response is triggered if the rule is broken once within the last 24 hours

**op**

Defines the defined as the mathematical operator for the rule

**gt**

Stands for the "greater than" symbol ( > )

**lt**

Stands for the "less than" symbol ( < )

**ge**

Stands for the "greater than or equal to" symbol ( >= )

**le**

Stands for the "less than or equal to" symbol ( <= )

**eq**

Stands for the "equals" symbol ( = )

*threshold*

Specifies the value at which the operator is triggered

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/openflow/logical-instance

Creates an OpenFlow logical instance, enables a variety of options under OpenFlow logical-instance configuration mode, and also associates the logical instance with an interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <openflow xmlns="urn:brocade.com:mgmt:brocade-openflow">
    <logical-instance>
      <instance-id>1</instance-id>
    </logical-instance>
  </openflow>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*instance-id*

Specifies the logical instance number

## rbridge-id/{rbridge-number}/openflow/logical-instance/activate

Activates an OpenFlow logical instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <openflow xmlns="urn:brocade.com:mgmt:brocade-openflow">
    <logical-instance>
      <instance-id>1</instance-id>
      <activate></activate>
    </logical-instance>
  </openflow>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*instance-id*

Specifies the logical instance number

**activate**

Activates an OpenFlow logical instance

## rbridge-id/{rbridge-number}/openflow/logical-instance/controller

Specifies the global name of an OpenFlow controller in OpenFlow logical-instance configuration mode.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <openflow xmlns="urn:brocade.com:mgmt:brocade-openflow">  
    <logical-instance>  
      <instance-id>1</instance-id>  
      <controller>  
        <controller-name>openflowcont1</controller-name>  
      </controller>  
    </logical-instance>  
  </openflow>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*instance-id*

Specifies the logical instance ID

*controller-name*

Specifies the already-created name of an OpenFlow controller



## rbridge-id/{rbridge-number}/openflow/logical-instance/default-behavior

Configures default table-miss behavior for an OpenFlow logical instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <openflow xmlns="urn:brocade.com:mgmt:brocade-openflow">
    <logical-instance>
      <instance-id>1</instance-id>
      <default-forwarding-action>send-to-controller</default-forwarding-action>
    </logical-instance>
  </openflow>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*instance-id*

Specifies the logical instance ID

*default-forwarding-action*

Specifies the default table-miss behavior

**drop**

Drops packets in case of a table miss

**send-to-controller**

Sends packets to the controller in case of a table miss

## rbridge-id/{rbridge-number}/openflow/logical-instance/passive

Specifies the behavior of a passive OpenFlow controller connection in OpenFlow logical-instance configuration mode.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <openflow xmlns="urn:brocade.com:mgmt:brocade-openflow">
    <logical-instance>
      <instance-id>1</instance-id>
      <passive>
        <no-ssl>
          <passive-controller-flag></passive-controller-flag>
          <passive-controller-ip-address>1.1.1.1</passive-controller-ip-
address>
          <passive-controller-port>1</passive-controller-port>
          <passive-controller-vrf>vrf1</passive-controller-vrf>
        </no-ssl>
      </passive>
    </logical-instance>
  </openflow>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*instance-id*

Specifies the logical instance ID

*passive-controller-ip-address*

Specifies the controller address

*passive-controller-port*

Specifies a TCP port to which remote controllers connect. The value can range from 1 through 65535

*passive-controller-vrf*

## rbridge-id/{rbridge-number}/openflow/logical-instance/version

Specifies the OpenFlow version to be used.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <openflow xmlns="urn:brocade.com:mgmt:brocade-openflow">
    <logical-instance>
      <instance-id>1</instance-id>
      <version>
        <version-name>ofv130</version-name>
      </version>
    </logical-instance>
  </openflow>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*instance-id*

Specifies the logical instance ID

*version-name*

ofv130 is the only version currently available

## rbridge-id/{rbridge-number}/protocol/vrrp

Globally enables VRRP (and VRRP-E on some platforms).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>27</rbridge-id>
  <protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <hide-vrrp-holder xmlns="urn:brocade.com:mgmt:brocade-vrrp">
      <vrrp></vrrp>
    </hide-vrrp-holder>
  </protocol>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- vrrp**  
Enables VRRP

## rbridge-id/{rbridge-number}/protocol/vrrp-extended

Globally enables VRRP-Extended.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <protocol xmlns="urn:brocade.com:mgmt:brocade-interface">
    <hide-vrrp-holder xmlns="urn:brocade.com:mgmt:brocade-vrrp">
      <vrrp-extended></vrrp-extended>
    </hide-vrrp-holder>
  </protocol>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**vrrp-extended**

enables VRRP-Extended globally

## rbridge-id/{rbridge-number}/qos/rcv-queue

Controls high burst traffic received on the Brocade VDX 6740.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <qos xmlns="urn:brocade.com:mgmt:brocade-qos">  
    <rcv-queue>  
      <rcv-queue-limit>300</rcv-queue-limit>  
    </rcv-queue>  
  </qos>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*rcv-queue-limit*

Specifies the upper limit of buffering for the port. The value can range from 128 KB through 8 MB. The default value is 285

## rbridge-id/{rbridge-number}/qos/tx-queue

Controls high burst traffic transmitted on the Brocade VDX 6740.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <qos xmlns="urn:brocade.com:mgmt:brocade-qos">
    <tx-queue>
      <tx-queue-limit>550</tx-queue-limit>
    </tx-queue>
  </qos>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*tx-queue-limit*

Specifies the upper limit of buffering for the port. The value can range from 128 through 8000. The default value is 512

## rbridge-id/{rbridge-number}/root/access

Restricts the root access to the device to the console only.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <root xmlns="urn:brocade.com:mgmt:brocade-aaa">  
    <access>console</access>  
  </root>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*access*

Restricts the root access to the device to the console only



## rbridge-id/{rbridge-number}/root/enable

Enables root access to the device following a firmware configuration.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <root xmlns="urn:brocade.com:mgmt:brocade-aaa">  
    <enable></enable>  
  </root>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**enable**

Enables root access to the device following a firmware configuration

## rbridge-id/{rbridge-number}/route-map

Creates a route map instance, with a variety of options.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

## rbridge-id/{rbridge-number}/route-map/continue

Creates a route map instance, with a variety of options

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <continue-holder>
        <continue></continue>
        <continue-val>5</continue-val>
      </continue-holder>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

#### *action-rm*

Specifies the action

##### **permit**

Allows a matching pattern

##### **deny**

Disallows a matching pattern

#### *instance*

Specifies the instance ID. The value can range from 1 through 65535

#### **continue**

Use a "continue" clause to allow for more programmable policy configuration and route filtering, with capability to execute additional entries in a route map after an entry is executed with successful "match" and "set" clauses

#### *continue-val*

Specifies the sequence ID. The value can range from 1 through 65535

## rbridge-id/{rbridge-number}/route-map/match/as-path

Matches an AS-path access list name in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <match>
        <as-path>
          <as-path-access-list-name>acl12 </as-path-access-list-name>
        </as-path>
      </match>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

#### *action-rm*

Specifies the action

##### **permit**

Allows a matching pattern

##### **deny**

Disallows a matching pattern

#### *instance*

Specifies the instance ID. The value can range from 1 through 65535

#### *as-path-access-list-name*

Specifies the name of an AS-path access list. The value can range from 1 through 32 ASCII characters

## rbridge-id/{rbridge-number}/route-map/match/community

Matches a BGP community access list name in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <match>
        <community>
          <community-access-list-name>acl11 exact-match</community-access-
list-name>
        </community>
      </match>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

#### *action-rm*

Specifies the action

##### **permit**

Allows a matching pattern

##### **deny**

Disallows a matching pattern

#### *instance*

Specifies the instance ID. The value can range from 1 through 65535

#### *community-access-list-name*

Specifies the name of a BGP community access list. The value can range from 1 through 32 ASCII characters

## rbridge-id/{rbridge-number}/route-map/match/extcommunity

Matches a BGP extended community list in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <match>
        <extcommunity>
          <extcommunity-num>5</extcommunity-num>
        </extcommunity>
      </match>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

#### *action-rm*

Specifies the action

##### **permit**

Allows a matching pattern

##### **deny**

Disallows a matching pattern

#### *instance*

Specifies the instance ID. The value can range from 1 through 65535

#### *extcommunity-num*

Specifies the extended community list number. The value can range from 1 through 99

## rbridge-id/{rbridge-number}/route-map/match/interface

Matches interface conditions in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>routel</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <match>
        <interface>
          <tengigabitethernet-rmm>1/0/5</tengigabitethernet-rmm>
        </interface>
      </match>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

## rbridge-id/{rbridge-number}/route-map/match/ip/address

Matches IP address conditions in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <match>
        <ip>
          <address>
            <acl-rmm>acl12</acl-rmm>
          </address>
        </ip>
      </match>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

#### *action-rm*

Specifies the action

##### **permit**

Allows a matching pattern

##### **deny**

Disallows a matching pattern

#### *instance*

Specifies the instance ID. The value can range from 1 through 65535

#### *acl-rmm*

Specifies the name of the access list. The value can range from 1 through 32 ASCII characters



## rbridge-id/{rbridge-number}/route-map/match/ip/next-hop

Matches IP next-hop match conditions in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>deny</action-rm>
    <instance>1</instance>
    <content>
      <match>
        <ip>
          <next-hop>
            <prefix-list-rmm-n>prefix1</prefix-list-rmm-n>
          </next-hop>
        </ip>
      </match>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

*prefix-list-rmm-n*

Specifies a prefix list. Values range from 1 through 32 ASCII characters

## rbridge-id/{rbridge-number}/route-map/match/ip/route-source

Configures source address of route.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>deny</action-rm>
    <instance>1</instance>
    <content>
      <match>
        <ip>
          <route-source>
            <prefix-list-rmrs>prefix1</prefix-list-rmrs>
          </route-source>
        </ip>
      </match>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

#### *action-rm*

Specifies the action

##### **permit**

Allows a matching pattern

##### **deny**

Disallows a matching pattern

#### *instance*

Specifies the instance ID. The value can range from 1 through 65535

#### *prefix-list-rmrs*

Specifies the name of the prefix list

## rbridge-id/{rbridge-number}/route-map/match/metric

Matches a route metric in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>routel</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <match>
        <metric>
          <metric-rmm>5</metric-rmm>
        </metric>
      </match>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

*metric-rmm*

Specifies the route metric. The values can range from 0 through 4294967295

## rbridge-id/{rbridge-number}/route-map/match/protocol/bgp

Matches BGP routes on protocol types and subtypes in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <match>
        <protocol>
          <bgp-protocol-container>
            <protocol-bgp></protocol-bgp>
            <bgp-route-type>external</bgp-route-type>
          </bgp-protocol-container>
        </protocol>
      </match>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

#### *action-rm*

Specifies the action

##### **permit**

Allows a matching pattern

##### **deny**

Disallows a matching pattern

#### *instance*

Specifies the instance ID. The value can range from 1 through 65535

#### **protocol-bgp**

Matches BGP routes on protocol types

#### *bgp-route-type*

Specifies the match type

##### **external**

Matches EBGP routes

##### **internal**

Matches IBGP routes

##### **static-network**

Matches BGP static routes. This is applicable only for BGP outbound policy

## rbridge-id/{rbridge-number}/route-map/match/route-type

Matches a route type in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <match>
        <route-type>
          <route-type-rmm>type-2</route-type-rmm>
        </route-type>
      </match>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

#### *action-rm*

Specifies the action

##### **permit**

Allows a matching pattern

##### **deny**

Disallows a matching pattern

#### *instance*

Specifies the instance ID. The value can range from 1 through 65535

#### *route-type-rmm*

Specifies the route type

##### **internal**

Internal route type

##### **type-1**

OSPF external route type 1

##### **type-2**

OSPF external route type 2

## rbridge-id/{rbridge-number}/route-map/match/tag

Matches a route tag in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <match>
        <tag>
          <tag-rmm>200</tag-rmm>
        </tag>
      </match>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

*tag-rmm*

Specifies the tag value. The value can range from 0 through 4294967295

## rbridge-id/{rbridge-number}/route-map/match/vrf

Matches a VRF in a route-map instance

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <match>
        <vrf>vrf1</vrf>
      </match>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

*vrf*

Specifies the name of the VRF

## rbridge-id/{rbridge-number}/route-map/set/as-path/prepend

Sets a prepended string for a BGP AS-path attribute in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <as-path>
          <prepend>23</prepend>
        </as-path>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

*prepend*

Prepends the string to the AS-path. The value can range from 1 through 4294967295



## rbridge-id/{rbridge-number}/route-map/set/as-path/tag

Sets a tag for a BGP AS-path attribute in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <as-path>
          <aspath-tag></aspath-tag>
        </as-path>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

*aspath-tag*

Sets a route tag

## rbridge-id/{rbridge-number}/route-map/set/automatic-tag

Sets the route-map tag value.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <automatic-tag>
          <tag-empty></tag-empty>
        </automatic-tag>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

*tag-empty*

## rbridge-id/{rbridge-number}/route-map/set/comm-list

Sets a BGP community list for deletion in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <comm-list>
          <comm-list-name>comm1</comm-list-name>
          <match-comm-delete></match-comm-delete>
        </comm-list>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

*comm-list-name*

Specifies the BGP community list name. The value can range from 1 through 32 ASCII characters

## rbridge-id/{rbridge-number}/route-map/set/community

Sets a BGP community attribute in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <community>
          <set-community-expr>additiveinternet</set-community-expr>
        </community>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

*set-community-expr*

## rbridge-id/{rbridge-number}/route-map/set/dampening

Sets a BGP route-flap dampening penalty in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <dampening>
          <half-life>20</half-life>
        </dampening>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

#### *action-rm*

Specifies the action

##### **permit**

Allows a matching pattern

##### **deny**

Disallows a matching pattern

#### *instance*

Specifies the instance ID. The value can range from 1 through 65535

#### *half-life*

Specifies the half-life in minutes for the penalty. The value can range from 1 through 45. The default value is 15

## rbridge-id/{rbridge-number}/route-map/set/distance

Sets the administrative distance for matching OSPF routes in route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <distance>
          <dist-rms>25</dist-rms>
        </distance>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

#### *action-rm*

Specifies the action

##### **permit**

Allows a matching pattern

##### **deny**

Disallows a matching pattern

#### *instance*

Specifies the instance ID. The value can range from 1 through 65535

#### *dist-rms*

Specifies the administrative distance for the route. The value can range from 1 through 254

## rbridge-id/{rbridge-number}/route-map/set/dscp

Configures the DSCP field value in IP header when a packet matches a flow.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <ip>
          <dscp>
            <dscp-rms>25</dscp-rms>
          </dscp>
        </ip>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

*dscp-rms*

Specifies the DSCP value in the IP header of the classified traffic. The value can range from range of valid 0 through 63

## rbridge-id/{rbridge-number}/route-map/set/extcommunity/rt

Sets an extended BGP community attribute in a route-map instance and sets the route target (RT) extended community attribute.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <extcommunity>
          <rt>
            <ASN-NN-rt>2005:2002 additive </ASN-NN-rt>
          </rt>
        </extcommunity>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

#### *action-rm*

Specifies the action

#### **permit**

Allows a matching pattern

#### **deny**

Disallows a matching pattern

#### *instance*

Specifies the instance ID. The value can range from 1 through 65535

#### *ASN-NN-rt*

Specifies the Autonomous system (AS) number and network number



## rbridge-id/{rbridge-number}/route-map/set/extcommunity/soo

Sets an extended BGP community attribute in a route-map instance and specifies the site of origin (SOO) extended community attribute.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <extcommunity>
          <soo>
            <ASN-NN-soo>2004:2003</ASN-NN-soo>
          </soo>
        </extcommunity>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

*ASN-NN-soo*

Specifies the Autonomous system (AS) number and network number

## rbridge-id/{rbridge-number}/route-map/set/ip/global

Specifies that the next specified hop address is to be resolved from the global routing table.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <ip>
          <global>
            <next-global-hop>
              <next-hop>1.1.1.1</next-hop>
            </next-global-hop>
          </global>
        </ip>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

*next-hop*

Specifies the IP address

## rbridge-id/{rbridge-number}/route-map/set/ip/interface

Drops traffic when the null 0 statement becomes the active setting as determined by the route-hop selection process.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <ip>
          <interface>
            <null0></null0>
          </interface>
        </ip>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

#### *action-rm*

Specifies the action

#### **permit**

Allows a matching pattern

#### **deny**

Disallows a matching pattern

#### *instance*

Specifies the instance ID. The value can range from 1 through 65535

#### **null0**

Drops traffic when the null 0 statement becomes the active setting

## rbridge-id/{rbridge-number}/route-map/set/ip/next-hop

Sets the IPv4 address of the next hop in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <ip>
          <next-ip>
            <next-hop>
              <next-hop>21.1.1.1</next-hop>
            </next-hop>
          </next-ip>
        </ip>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

*next-hop*

Specifies the IPv4 address of the next hop

# rbridge-id/{rbridge-number}/route-map/set/ip/next-hop/vrf

Sets the VRF for the next hop in a route-map instance

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <ip>
          <next-vrf>
            <next-vrf-list>
              <vrf>vrf1</vrf>
              <next-hop>1.1.1.1</next-hop>
            </next-vrf-list>
          </next-vrf>
        </ip>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

## Parameters

### *rbridge-id*

Specifies the RBridge ID

### *name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

### *action-rm*

Specifies the action

#### **permit**

Allows a matching pattern

#### **deny**

Disallows a matching pattern

### *instance*

Specifies the instance ID. The value can range from 1 through 65535

### *vrf*

Specifies the VRF name

### *next-hop*

Sets the next hop to which to route the packet

## rbridge-id/{rbridge-number}/route-map/set/local-preference

Sets a BGP local-preference path attribute in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <local-preference>
          <local-preference-value>50</local-preference-value>
        </local-preference>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

#### *action-rm*

Specifies the action

##### **permit**

Allows a matching pattern

##### **deny**

Disallows a matching pattern

#### *instance*

Specifies the instance ID. The value can range from 1 through 65535

#### *local-preference-value*

Specifies the local preference value. The value can range from 0 through 4294967295

## rbridge-id/{rbridge-number}/route-map/set/metric

Configures the route metric set clause in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <metric>
          <delta-rms>add</delta-rms>
          <metric-rms>3</metric-rms>
        </metric>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

#### *action-rm*

Specifies the action

##### **permit**

Allows a matching pattern

##### **deny**

Disallows a matching pattern

#### *instance*

Specifies the instance ID. The value can range from 1 through 65535

#### *delta-rms*

Specifies the metric type

##### **add**

Adds the value to the current route metric

##### **assign**

Replaces the current route metric with this value

##### **sub**

Subtracts the value from the current route metric

##### **none**

Removes the current route metric

#### *metric-rms*

Specifies the metric value. The value can range from 0 through 4294967295

## rbridge-id/{rbridge-number}/route-map/set/metric-type

Sets a variety of metric types for destination routing in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <metric-type>
          <type-1></type-1>
        </metric-type>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

#### *action-rm*

Specifies the action

##### **permit**

Allows a matching pattern

##### **deny**

Disallows a matching pattern

#### *instance*

Specifies the instance ID. The value can range from 1 through 65535

#### *metric-type*

Specifies the metric-type

##### **external**

IS-IS external metric

##### **internal**

IGP internal metric to BGP MED

##### **type-1**

OSPF external type-1 metric

##### **type-2**

OSPF external type-2 metric



## rbridge-id/{rbridge-number}/route-map/set/origin

Sets a BGP origin code in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <origin>
          <origin-igp></origin-igp>
        </origin>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

*origin*

Specifies the origin type

**igp**

Local IGP

**incomplete**

Unknown heritage

## rbridge-id/{rbridge-number}/route-map/set/route-type

Sets a route type in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <tag>
          <tag-rms>54</tag-rms>
        </tag>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

## rbridge-id/{rbridge-number}/route-map/set/tag

Sets the route tag value in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <tag>
          <tag-rms>54</tag-rms>
        </tag>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

*tag-rms*

Specifies the tag clause value for the route-map. The value can range from 0 through 4294967295

## rbridge-id/{rbridge-number}/route-map/set/weight

Sets a BGP weight for the routing table in a route-map instance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <route-map xmlns="urn:brocade.com:mgmt:brocade-ip-policy">
    <name>route1</name>
    <action-rm>permit</action-rm>
    <instance>1</instance>
    <content>
      <set>
        <weight>
          <weight-value>45</weight-value>
        </weight>
      </set>
    </content>
  </route-map>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*name*

Specifies the name of the route map. The string must be between 1 and 63 ASCII characters in length

*action-rm*

Specifies the action

**permit**

Allows a matching pattern

**deny**

Disallows a matching pattern

*instance*

Specifies the instance ID. The value can range from 1 through 65535

*weight-value*

Specifies the weight value. The value can range from 0 through 65535

## rbridge-id/{rbridge-number}/router/bgp

Enables BGP routing.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <router>  
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp"></router-bgp>  
  </router>  
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- router-bgp*  
Enables BGP routing

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast

Enables the IPv4 address family configuration mode to configure a variety of BGP4 unicast routing options

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <af-vrf>
              <af-vrf-name>red</af-vrf-name>
            </af-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- af-vrf-name*  
Specifies the VRF name

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/aggregate-address/advertise-map

Configures the device to advertise the more-specific routes in the specified route map.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <aggregate-address>
                <aggregate-ip-prefix>5.0.0.0/8</aggregate-ip-prefix>
                <advertise-map>route1</advertise-map>
              </aggregate-address>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*aggregate-ip-prefix*

Specifies the IPv4 address

*advertise-map*

Specifies a route map to be consulted

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/aggregate-address/as-set

Sets the device to aggregate AS-path information for all routes in the aggregate routes from a range of networks into a single network prefix.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <aggregate-address>
                <aggregate-ip-prefix>5.0.0.0/8</aggregate-ip-prefix>
                <as-set></as-set>
              </aggregate-address>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*aggregate-ip-prefix*

Specifies the IPv4 address

**as-set**

Sets the device to aggregate AS-path information



## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/aggregate-address/attribute-map

Sets the device to set attributes for the aggregate routes according to the specified route map.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <aggregate-address>
                <aggregate-ip-prefix>5.0.0.0/8</aggregate-ip-prefix>
                <attribute-map>route1</attribute-map>
              </aggregate-address>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*aggregate-ip-prefix*

Specifies the IPv4 address

*attribute-map*

Specifies a route map to be consulted

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/aggregate-address/summary-only

Configures the device to aggregate routes from a range of networks into a single network prefix.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <aggregate-address>
                <aggregate-ip-prefix>100.1.0.0/16</aggregate-ip-
prefix>
                <summary-only></summary-only>
              </aggregate-address>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*aggregate-ip-prefix*

Specifies the IPv4 address

**summary-only**

Prevents the device from advertising more-specific routes contained within the aggregate route

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/aggregate-address/suppress-map

Prevents the more-specific routes contained in the specified route map from being advertised.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <aggregate-address>
                <aggregate-ip-prefix>5.0.0.0/8</aggregate-ip-prefix>
                <suppress-map>route1</suppress-map>
              </aggregate-address>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- aggregate-ip-prefix*  
Specifies the IPv4 address
- suppress-map*  
Specifies a route map to be consulted

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/always-propagate

Enables the device to reflect BGP routes even though they are not installed in the Routing Table Manager (RTM).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <af-vrf>
              <af-vrf-name>red</af-vrf-name>
              <always-propagate></always-propagate>
            </af-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*af-vrf-name*

Specifies the VRF name

*always-propagate*

Configures the device to reflect BGP routes that are not installed in the RTM

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/bgp-redistribute-internal

Causes the device to allow the redistribution of IBGP routes from BGP into OSPF for non-default VRF instances.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <af-vrf>
              <af-vrf-name>red</af-vrf-name>
              <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                <bgp-redistribute-internal></bgp-redistribute-
internal>
              </af-ipv4-uc-and-vrf-cmds-call-point-holder>
            </af-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- af-vrf-name*  
Specifies the VRF name
- bgp-redistribute-internal**  
Enables BGP4 route redistribution

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/client-to-client-reflection

Enables routes from one Route Reflector Client to other clients by the host device on which it is configured.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <af-vrf>
              <af-vrf-name>red</af-vrf-name>
              <client-to-client-reflection></client-to-client-
reflection>
            </af-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*af-vrf-name*

Specifies the VRF name

**client-to-client-reflection**

Configures client-to-client reflection on the BGP4 host device

# rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/dampening

Sets dampening parameters for the route in BGP address-family mode.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <dampening>
                  <values>
                    <half-time>20</half-time>
                    <reuse-value>751</reuse-value>
                    <start-suppress-time>2001</start-suppress-
time>
                    <max-suppress-time>41</max-suppress-time>
                  </values>
                </dampening>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

## Parameters

### *rbridge-id*

Specifies the RBridge ID

### *half-time*

Specifies the number of minutes after which the route penalty becomes half its value. The value can range from 1 through 45 minutes. The default time is 15 minutes

### *reuse-value*

Specifies the minimum penalty below which the route becomes usable again. The value can range from 1 through 20000. The default value is 750

### *start-suppress-time*

Specifies the maximum penalty above which the route is suppressed by the device. The value can range from 1 through 20000. The default value is 2000

### *max-suppress-time*

Specifies the maximum number of minutes a route can be suppressed by the device. The default value is 40

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/dampening/route-map

Enables selection of dampening values established in a route map.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <dampening>
                  <dampening-route-map>route1</dampening-route-map>
                </dampening>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*dampening-route-map*

Specifies the name of the configured route map



## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/default-information-originate

Configures the device to originate and advertise a default BGP4 or BGP4+ route.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <default-information-originate></default-information-
originate>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**default-information-originate**

Sets the device to originate and advertise a default BGP4 or BGP4+ route.

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/default-metric

Changes the default metric used for redistribution.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <default-metric>2</default-metric>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*default-metric*

Specifies the metric value. The value can range from 0 through 4294967295. The default value is 1

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/graceful-restart/purge-time

Enables BGP graceful restart time before restarting router clean up stale.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <graceful-restart>
                  <purge-time>10</purge-time>
                </graceful-restart>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*purge-time*

Specifies the maximum time before restarting router clean up stale time. The value can range from 1 through 3600 seconds. The default time is 600 seconds

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/graceful-restart/restart-time

Enables BGP graceful restart wait time advertised to neighbors.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <graceful-restart>
                  <restart-time>100</restart-time>
                </graceful-restart>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *restart-time*

Specifies the maximum restart wait time advertised to neighbors. The value can range from 1 through 3600 seconds. The default time is 120 seconds

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/graceful-restart/stale-routes-time

Enables BGP graceful restart time before helper router cleanup stale routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <graceful-restart>
                  <stale-routes-time>150</stale-routes-time>
                </graceful-restart>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*stale-routes-time*

Specifies the maximum time before helper router cleanup stale routes. The value can range from 1 through 3600 seconds. The default time is 360 seconds

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/maximum-paths

Sets the maximum number of BGP4 and BGP4+ shared paths.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <maximum-paths>
                  <load-sharing-value>29</load-sharing-value>
                </maximum-paths>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *load-sharing-value*

Specifies the maximum number of paths across which the device balances traffic to a given BGP4 destination. The value can range from 1 through 32 for the Brocade VDX 8770 and Brocade VDX 6940; the value can range from 1 through 16 for the Brocade VDX 6740. The default value is 1 for all platforms

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/maximum-paths/ebgp

Configures number of EBGp paths for load sharing.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <maximum-paths>
                  <ebgp>30</ebgp>
                </maximum-paths>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*ebgp*

Specifies the number of EBGp paths. The value can range from 1 through 32. The default value is all

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/maximum-paths/ibgp

Configures the number of IBGP paths for load sharing.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <maximum-paths>
                  <ibgp>31</ibgp>
                </maximum-paths>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*ibgp*

Specifies the number of IBGP paths for load sharing. The value can range from 1 through 32. The default value is all



## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/maximum-paths/use-load-sharing

Uses the maximum IP ECMP path value.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <maximum-paths>
                  <use-load-sharing></use-load-sharing>
                </maximum-paths>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**use-load-sharing**

Uses the maximum IP ECMP path value

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/multipath/ebgp

Changes load sharing to apply to only EBGp paths.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <multipath>
                  <ebgp></ebgp>
                </multipath>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**ebgp**

Enables load sharing of EBGp paths only

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/multipath/ibgp

Changes load sharing to apply to only IBGP paths.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <multipath>
                  <ibgp></ibgp>
                </multipath>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**ibgp**

Enables load sharing of IBGP paths only

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/multipath/multi-as

Changes load sharing to support load sharing among paths from different neighboring autonomous systems.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <af-common-cmds-holder>
                <multipath>
                  <multi-as></multi-as>
                </multipath>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**multi-as**

Enables load sharing of paths from different neighboring autonomous systems

# rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/activate

Allows exchange of routes in the current family mode.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>103</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
            <neighbor>
              <af-ipv4-neighbor-address-holder>
                <af-ipv4-neighbor-address>
                  <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-
neighbor-address>
                  <activate></activate>
                </af-ipv4-neighbor-address>
              </af-ipv4-neighbor-address-holder>
            </neighbor>
          </default-vrf>
        </ipv4-unicast>
      </ipv4>
    </address-family>
  </router-bgp>
</router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*af-ipv4-neighbor-address*

Specifies the BGP neighbor address

**activate**

Allows exchange of routes in the current family mode

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

# rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/additional-paths/advertise/all

Applies filters for the advertisement of all additional paths for BGP neighbors.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
            <neighbor>
              <af-ipv4-neighbor-address-holder>
                <af-ipv4-neighbor-address>
                  <af-ipv4-neighbor-address>10.10.10.1</af-
ipv4-neighbor-address>
                  <additional-paths>
                    <advertise>
                      <all></all>
                    </advertise>
                  </additional-paths>
                </af-ipv4-neighbor-address>
              </af-ipv4-neighbor-address-holder>
            </neighbor>
          </default-vrf>
        </ipv4-unicast>
      </ipv4>
    </address-family>
  </router-bgp>
</router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*af-ipv4-neighbor-address*

Specifies the BGP neighbor address

**all**

Advertises all BGP additional paths with a unique next hop

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

# rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/additional-paths/advertise/best

Applies filters for the advertisement of additional paths for BGP neighbors.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
            <neighbor>
              <af-ipv4-neighbor-address-holder>
                <af-ipv4-neighbor-address>
                  <af-ipv4-neighbor-address>10.10.10.1</af-ipv4-
neighbor-address>
                  <additional-paths>
                    <advertise>
                      <best>1</best>
                    </advertise>
                  </additional-paths>
                </af-ipv4-neighbor-address>
              </af-ipv4-neighbor-address-holder>
            </neighbor>
          </default-vrf>
        </ipv4-unicast>
      </ipv4>
    </address-family>
  </router-bgp>
</router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*af-ipv4-neighbor-address*

Specifies the BGP neighbor address

*best*

Advertises the additional paths that the device selects as best paths. Specifies the number of best paths advertised. The value can range from 1 through 5

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/capability

Advertises outbound route filter (ORF) capabilities to peer routers.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <neighbor>
                <af-ipv4-neighbor-address-holder>
                  <af-ipv4-neighbor-address>
                    <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-neighbor-address>
                    <af-neighbor-capability>
                      <orf>
                        <prefixlist>
                          <prefixlist-status></prefixlist-status>
                          <prefixlist-send></prefixlist-send>
                          <prefixlist-receive></prefixlist-receive>
                        </prefixlist>
                      </orf>
                    </af-neighbor-capability>
                  </af-ipv4-neighbor-address>
                </af-ipv4-neighbor-address-holder>
              </neighbor>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*af-ipv4-neighbor-address*

Specifies the IPv4 address of the neighbor

*prefixlist-send*

Enables the ORF prefix list capability in send mode

*prefixlist-receive*

Enables the ORF prefix list capability in receive mode



# rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/capability/additional-paths

Enables the advertisement of additional paths for BGP neighbors.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <neighbor>
                <af-ipv4-neighbor-address-holder>
                  <af-ipv4-neighbor-address>
                    <af-ipv4-neighbor-address>10.10.10.1</af-ipv4-
neighbor-address>
                    <af-neighbor-capability>
                      <additional-paths>
                        <add-path-both></add-path-both>
                        <receive></receive>
                      </additional-paths>
                    </af-neighbor-capability>
                  </af-ipv4-neighbor-address>
                </af-ipv4-neighbor-address-holder>
              </neighbor>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*af-ipv4-neighbor-address*

Specifies the BGP neighbor address

*additional-paths*

Enables the advertisement of additional paths for BGP neighbors

**receive**

Enables BGP to receive additional paths from BGP neighbors.

**send**

Enables BGP to send additional paths to BGP neighbors

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/default-originate

Configures the device to send the default route 0.0.0.0 to a neighbor.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <neighbor>
                <af-ipv4-neighbor-address-holder>
                  <af-ipv4-neighbor-address>
                    <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-
neighbor-address>
                    <default-originate>
                      <default-originate-status></default-
originate-status>
                    </default-originate>
                  </af-ipv4-neighbor-address>
                </af-ipv4-neighbor-address-holder>
              </neighbor>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*af-ipv4-neighbor-address*

Specifies the IPv4 address of the neighbor

*default-originate-status*

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/maximum-prefix

Specifies the maximum number of IP network prefixes (routes) that can be learned from a specified neighbor or peer group.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <neighbor>
                <af-ipv4-neighbor-address-holder>
                  <af-ipv4-neighbor-address>
                    <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-
neighbor-address>
                    <maximum-prefix>
                      <max-prefix-limit>12</max-prefix-limit>
                      <threshold-holder>
                        <threshold>10</threshold>
                        <teardown></teardown>
                      </threshold-holder>
                    </maximum-prefix>
                  </af-ipv4-neighbor-address>
                </af-ipv4-neighbor-address-holder>
              </neighbor>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *af-ipv4-neighbor-address*

Specifies the IPv4 address of the neighbor

#### *max-prefix-limit*

Specifies the maximum number of IP prefixes that can be learned. The value can range from 0 through 4294967295. The default value is 0 (unlimited)

#### *threshold*

Specifies the percentage of the value specified by num that causes a syslog message to be generated. The value can range from 1 through 100. The default value is 100

#### **teardown**

Tears down the neighbor session if the maximum number of IP prefixes is exceeded

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/prefix-list

Filters the outgoing and incoming route updates to or from a particular BGP neighbor according to IP address and mask length.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
            <neighbor>
              <af-ipv4-neighbor-address-holder>
                <af-ipv4-neighbor-address>
                  <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-
neighbor-address>
                    <prefix-list>
                      <direction-in>
                        <prefix-list-direction-in-prefix-
name>prefix1</prefix-list-direction-in-prefix-
list-direction-in>
                          <prefix-list-direction-in></prefix-
list-direction-in>
                        </direction-in>
                      </prefix-list>
                    </af-ipv4-neighbor-address>
                  </af-ipv4-neighbor-address-holder>
                </neighbor>
              </default-vrf>
            </ipv4-unicast>
          </ipv4>
        </address-family>
      </router-bgp>
    </router>
  </rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- af-ipv4-neighbor-address*  
Specifies the IPv4 address of the neighbor
- prefix-list-direction-in-prefix-name*  
Specifies the prefix list name
- prefix-list-direction-in*  
Applies the filter in incoming routes

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/filter-list

Specifies a filter list to be applied to updates from or to the specified neighbor.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
            <neighbor>
              <af-ipv4-neighbor-address-holder>
                <af-ipv4-neighbor-address>
                  <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-
neighbor-address>
                <filter-
list>
                  <prefix-list>
                    <direction-in>
                      <prefix-list-direction-in-prefix-
name>prefix1</prefix-list-direction-in-prefix-
name>
                    <prefix-list-direction-in>
                      </direction-in>
                    </prefix-list>
                  </filter-list>
                </af-ipv4-neighbor-address>
              </af-ipv4-neighbor-address-holder>
            </neighbor>
          </default-vrf>
        </ipv4-unicast>
      </ipv4>
    </address-family>
  </router-bgp>
</router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*af-ipv4-neighbor-address*

Specifies the IPv4 address of the neighbor

*prefix-list-direction-in-prefix-name*

Specifies the name of the filter list

*prefix-list-direction-in*

Specifies that the list is applied on updates received from the neighbor

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/route-map

Filters the outgoing and incoming route updates to or from a particular BGP neighbor according to a set of attributes defined in a route map.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
            <neighbor>
              <af-ipv4-neighbor-address-holder>
                <af-ipv4-neighbor-address>
                  <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-
neighbor-address>
                    <neighbor-route-map>
                      <neighbor-route-map-direction-in>
                        <neighbor-route-map-name-direction-in>
in>route1</neighbor-route-map-name-direction-in>
                      </neighbor-route-map-direction-in>
                    </neighbor-route-map>
                  </af-ipv4-neighbor-address>
                </af-ipv4-neighbor-address-holder>
              </neighbor>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- af-ipv4-neighbor-address*  
Specifies the IPv4 address of the neighbor
- neighbor-route-map-name-direction-in*  
Specifies the name of the route map

# rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/route-reflector-client

Configures a neighbor to be a route-reflector client.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
            <neighbor>
              <af-ipv4-neighbor-address-holder>
                <af-ipv4-neighbor-address>
                  <af-ipv4-neighbor-address>10.10.10.1</af-ipv4-
neighbor-address>
                  <route-reflector-client></route-reflector-
client>
                </af-ipv4-neighbor-address>
              </af-ipv4-neighbor-address-holder>
            </neighbor>
          </default-vrf>
        </ipv4-unicast>
      </ipv4>
    </address-family>
  </router-bgp>
</router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*af-ipv4-neighbor-address*

Specifies the BGP neighbor address

**route-reflector-client**

Enables a neighbor to be a route-reflector client

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/send-community

Enables sending the community attribute in updates to the specified BGP neighbor.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
            <neighbor>
              <af-ipv4-neighbor-address-holder>
                <af-ipv4-neighbor-address>
                  <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-neighbor-address>
                <send-community>
                  <send-community-status></send-community-status>
                <both></both>
                <extended></extended>
                <standard></standard>
              </send-community>
            </af-ipv4-neighbor-address>
          </af-ipv4-neighbor-address-holder>
        </neighbor>
      </default-vrf>
    </ipv4-unicast>
  </ipv4>
</address-family>
</router-bgp>
</router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*af-ipv4-neighbor-address*

Specifies the IPv4 address of the neighbor

*send-community-status*

Specifies the status

**both**

Sends both standard and extended attributes

**extended**

Sends extended attributes

**standard**

Sends standard attributes



## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/unsuppress-map

Removes route suppression from BGP neighbor routes when those routes have been suppressed as a result of aggregation. All routes matching route-map rules are unsuppressed.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <neighbor>
                <af-ipv4-neighbor-address-holder>
                  <af-ipv4-neighbor-address>
                    <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-
neighbor-address>
                    <unsuppress-map>
                      <map-name>route1</map-name>
                    </unsuppress-map>
                  </af-ipv4-neighbor-address>
                </af-ipv4-neighbor-address-holder>
              </neighbor>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- af-ipv4-neighbor-address*  
Specifies the IPv4 address of the neighbor
- map-name*  
Specifies the route map name

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/neighbor/weight

Specifies a weight that the device will add to routes that are received from the specified BGP neighbor.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <neighbor>
                <af-ipv4-neighbor-address-holder>
                  <af-ipv4-neighbor-address>
                    <af-ipv4-neighbor-address>1.1.1.1</af-ipv4-
neighbor-address>
                    <af-nei-weight>10</af-nei-weight>
                  </af-ipv4-neighbor-address>
                </af-ipv4-neighbor-address-holder>
              </neighbor>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*af-ipv4-neighbor-address*

Specifies the IPv4 address of the neighbor

*af-nei-weight*

Specifies the weight. The value can range from 1 through 65535. The default value is 0

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/network

Configures the device to advertise a BGP network.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <network>
                <network-ipv4-address>5.0.0.0/8</network-ipv4-address>
                <network-weight>10</network-weight>
                <backdoor></backdoor>
                <network-route-map>route1</network-route-map>
              </network>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *network-weight*

Specifies a weight to be added to routes to this network. The value can range from 0 through 65535. The default value is 0.

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/next-hop-enable-default

Configures the device to use the BGP default route as the next hop.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <next-hop-enable-default></next-hop-enable-default>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**next-hop-enable-default**

Enables the device to use the BGP default route as the next hop

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/next-hop-recursion

Enables BGP recursive next-hop lookups.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <next-hop-recursion></next-hop-recursion>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**next-hop-recursion**

Enables BGP recursive next-hop lookups

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/ redistribute/bgp/metric

Configures the device to redistribute IPv4 BGP routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                <redistribute>
                  <bgp>
                    <bgp-metric>3</bgp-metric>
                  </bgp>
                </redistribute>
              </af-ipv4-uc-and-vrf-cmds-call-point-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*bgp-metric*

Specifies a metric for redistributed routes. The value can range from 0 through 65535. No value is assigned by default

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/ redistribute/bgp/route-map

Configures the device to redistribute IPv4 BGP routes and specifies that route-map.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                <redistribute>
                  <bgp>
                    <bgp-route-map>route1</bgp-route-map>
                  </bgp>
                </redistribute>
              </af-ipv4-uc-and-vrf-cmds-call-point-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*bgp-route-map*

Specifies a route map to be consulted before a route is added to the routing table

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/redistribute/connected/metric

Configures the device to redistribute IPv4 BGP directly connected routes into BGP4+

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                <redistribute>
                  <connected>
                    <redistribute-connected></redistribute-
connected>
                    <unicast-metric>20</unicast-metric>
                  </connected>
                </redistribute>
              </af-ipv4-uc-and-vrf-cmds-call-point-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*unicast-metric*

Specifies a metric for redistributed routes. The value can range from 0 through 65535. No value is assigned by default



## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/redistribute/connected/route-map

Configures the device to redistribute IPv4 BGP4 routes and specifies that route-map

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                <redistribute>
                  <connected>
                    <redistribute-connected></redistribute-
connected>
                    <redistribute-route-map>route1</redistribute-
route-map>
                  </connected>
                </redistribute>
              </af-ipv4-uc-and-vrf-cmds-call-point-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*redistribute-route-map*

Specifies a route map to be consulted before a route is added to the routing table

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/ redistribute/ospf/match

Configures the device to redistribute IPv4 OSPF external type.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                <redistribute>
                  <ospf>
                    <redistribute-ospf></redistribute-ospf>
                    <match>
                      <ospf-internal></ospf-internal>
                    </match>
                  </ospf>
                </redistribute>
              </af-ipv4-uc-and-vrf-cmds-call-point-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*match*

Specifies the type of route

**external1**

Specifies OSPF Type 1 external routes

**external2**

Specifies OSPF Type 2 external routes

**internal**

Specifies OSPF internal routes

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/ redistribute/ospf/metric

Configures the device to redistribute IPv4 OSPF routes

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                <redistribute>
                  <ospf>
                    <redistribute-ospf></redistribute-ospf>
                    <ospf-metric>20</ospf-metric>
                  </ospf>
                </redistribute>
              </af-ipv4-uc-and-vrf-cmds-call-point-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*ospf-metric*

Specifies a metric for redistributed routes. The value can range from 0 through 65535.  
No value is assigned by default

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/redistribute/ospf/route-map

Configures the device to redistribute IPv4 OSPF routes and specifies the route-map.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                <redistribute>
                  <ospf>
                    <redistribute-ospf></redistribute-ospf>
                    <ospf-route-map>route1</ospf-route-map>
                  </ospf>
                </redistribute>
              </af-ipv4-uc-and-vrf-cmds-call-point-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*ospf-route-map*

Specifies a route map to be consulted before a route is added to the routing table

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/redistribute/static/metric

Configures the device to redistribute IPv4 static routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                <redistribute>
                  <static>
                    <redistribute-static></redistribute-static>
                    <unicast-static-metric>1000</unicast-static-
metric>
                  </static>
                </redistribute>
              </af-ipv4-uc-and-vrf-cmds-call-point-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *unicast-static-metric*

Specifies a metric for redistributed routes. The value can range from 0 through 65535.  
No value is assigned by default

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/redistribute/static/route-map

Configures the device to redistribute IPv4 static routes and specifies the route-map

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-ipv4-uc-and-vrf-cmds-call-point-holder>
                <redistribute>
                  <static>
                    <redistribute-static></redistribute-static>
                    <static-route-map>route1</static-route-map>
                  </static>
                </redistribute>
              </af-ipv4-uc-and-vrf-cmds-call-point-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*static-route-map*

Specifies a route map to be consulted before a route is added to the routing table

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/rib-route-map

Limits the maximum number of BGP Routing Information Base (RIB) routes that can be installed in the Routing Table Manager (RTM).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <rib-route-limit>20</rib-route-limit>
              </af-common-cmds-holder>
              <next-hop-recursion></next-hop-recursion>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*rib-route-limit*

Specifies the decimal value for the maximum number of RIB routes to be installed in the RTM. The value can range from 1 through 65535

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/static-network

Configures a static BGP4 network, creating a stable network in the core.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <static-network>
                <static-network-address>100.1.0.0/16</static-network-
address>
                <static-network-distance>10</static-network-distance>
              </static-network>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*static-network-address*

Specifies the network and mask in CIDR notation

*static-network-distance*

Specifies an administrative distance value for this network. The value can range from 1 through 255. The default value is 200



## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/table-map

Maps external entry attributes into the BGP routing table, ensuring that those attributes are preserved after being redistributed into OSPF.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <table-map>
                  <table-map-route-map>route1</table-map-route-map>
                </table-map>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*table-map-route-map*

Specifies a route map to be whose attributes are to be preserved. The value can range from 1 through 63 ASCII characters

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv4/unicast/update-time

Configures the interval at which BGP next-hop tables are modified. BGP next-hop tables should always have IGP (non-BGP) routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv4>
          <ipv4-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <update-time>10</update-time>
              </af-common-cmds-holder>
              <next-hop-recursion></next-hop-recursion>
            </default-vrf>
          </ipv4-unicast>
        </ipv4>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *update-time*

Specifies the update time in seconds. The value can range from 0 through 30. The default update time is 5 seconds

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/aggregate-address

Configures the device to aggregate routes from a range of networks into a single network prefix.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <aggregate-ipv6-address>
                <aggregate-ip-prefix>2001:db8:12d:1300::/64</
aggregate-ip-prefix>
                  <as-set></as-set>
                </aggregate-ipv6-address>
              </default-vrf>
            </ipv6-unicast>
          </ipv6>
        </address-family>
      </router-bgp>
    </router>
  </rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *aggregate-ip-prefix*

Specifies the IPv6 address

#### **as-set**

Causes the device to aggregate AS-path information for all routes in the aggregate routes from a range of networks into a single network prefix

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/always-propagate

Enables the device to reflect BGP routes even though they are not installed in the Routing Table Manager (RTM).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <always-propagate></always-propagate>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**always-propagate**

Enables the device to reflect BGP routes

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/bgp-redistribute-internal

Causes the device to allow the redistribution of IBGP routes from BGP into OSPF for non-default VRF instances.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-ipv6-uc-and-vrf-cmds-call-point-holder>
                <bgp-redistribute-internal></bgp-redistribute-internal>
              </af-ipv6-uc-and-vrf-cmds-call-point-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**bgp-redistribute-internal**

Allows the redistribution of IBGP routes from BGP into OSPF

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/client-to-client-reflection

Enables routes from one client to be reflected to other clients by the host device on which it is configured.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <client-to-client-reflection></client-to-client-
reflection>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### **client-to-client-reflection**

Enables routes from one client to be reflected to other clients

# rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/dampening

Sets dampening parameters for the route in BGP address-family mode.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <dampening>
                  <values>
                    <half-time>25</half-time>
                    <reuse-value>755</reuse-value>
                    <start-suppress-time>2005</start-suppress-
time>
                    <max-suppress-time>45</max-suppress-time>
                  </values>
                </dampening>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

## Parameters

### *rbridge-id*

Specifies the RBridge ID

### *half-time*

Specifies the number of minutes after which the route penalty becomes half its value. The value can range from 1 through 45. The default time is 15

### *reuse-value*

Specifies the minimum penalty below which the route becomes usable again. The value can range from 1 through 20000. The default value is 750

### *start-suppress-time*

Specifies the maximum penalty above which the route is suppressed by the device. The value can range from 1 through 20000. The default value is 2000

### *max-suppress-time*

Specifies the maximum number of minutes a route can be suppressed by the device. The default value is 40

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/default-information-originate

Configures the device to originate and advertise a default BGP4 or BGP4+ route.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <default-information-originate></default-information-
originate>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**default-information-originate**

Enables the device to originate and advertise a default BGP4 or BGP4+ route



## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/default-metric

Changes the default metric used for redistribution.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <default-metric>2</default-metric>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*default-metric*

Specifies the metric value. The value can range from 0 through 4294967295. The default value is 1

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/graceful-restart

Enables the BGP graceful restart capability.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <graceful-restart></graceful-restart>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**graceful-restart**

Enables the BGP graceful restart capability

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/graceful-restart/purge-time

Configures the maximum time before restarting router clean up stale.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <graceful-restart>
                  <purge-time>200</purge-time>
                </graceful-restart>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*purge-time*

Specifies the maximum time before restarting router clean up stale. The value can range from 1 through 3600 seconds. The default value is 600 seconds

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/graceful-restart/restart-time

Configures the maximum restart wait time advertised to neighbors.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <graceful-restart>
                  <restart-time>250</restart-time>
                </graceful-restart>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*restart-time*

Specifies the maximum restart wait time advertised to neighbors. The value can range from 1 through 3600 seconds. The default value is 120 seconds

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/graceful-restart/stale-routes-time

Configures the maximum time before helper router clean up stale routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <graceful-restart>
                  <stale-routes-time>400</stale-routes-time>
                </graceful-restart>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *stale-routes-time*

Specifies the maximum time before helper router clean up stale routes. The value can range from 1 through 3600 seconds. The default value is 360 seconds

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/maximum-paths

Sets the maximum number of BGP4 and BGP4+ shared paths.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <maximum-paths>
                  <load-sharing-value>25</load-sharing-value>
                </maximum-paths>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *load-sharing-value*

Specifies the maximum number of paths across which the device balances traffic to a given BGP4 destination. The value can range from 1 through 32 for the Brocade VDX 8770 and Brocade VDX 6940; the value can range from 1 through 16 for the Brocade VDX 6740. The default value is 1 for all platforms

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/maximum-paths/ebgp

Configures the number of EBGp paths for load sharing.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <maximum-paths>
                  <ebgp>27</ebgp>
                </maximum-paths>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*ebgp*

Specifies the the number of EBGp paths for load sharing. The value can range from 1 through 32. The default value is all

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/maximum-paths/ibgp

Configures the number of IBGP paths for load sharing.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <maximum-paths>
                  <ibgp>29</ibgp>
                </maximum-paths>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*ibgp*

Specifies the number of IBGP paths for load sharing. The value can range from 1 through 32. The default value is all



## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/maximum-paths/use-load-sharing

Configures the number of load sharing paths.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <maximum-paths>
                  <use-load-sharing></use-load-sharing>
                </maximum-paths>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**use-load-sharing**

Uses the maximum IP ECMP path value

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/multipath/ebgp

Changes load sharing to apply to only EBGp paths.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <multipath>
                  <ebgp></ebgp>
                </multipath>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**ebgp**

Enables load sharing of EBGp paths only

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/multipath/ibgp

Changes load sharing to apply to only IBGP.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <multipath>
                  <ibgp></ibgp>
                </multipath>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**ibgp**

Enables load sharing of IBGP paths only

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/multipath/multi-as

Changes load sharing to apply to support load sharing among paths from different neighboring autonomous systems.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <multipath>
                  <multi-as></multi-as>
                </multipath>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*multi-as*

Enables load sharing of paths from different neighboring autonomous systems.

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/activate

Enables the exchange of information with BGP neighbors and peer groups.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <neighbor>
                <af-ipv6-neighbor-address-holder>
                  <af-ipv6-neighbor-address>
                    <af-ipv6-neighbor-address>2004:384d::
23:24</af-ipv6-neighbor-address>
                                <activate></activate>
                              </af-ipv6-neighbor-address>
                            </af-ipv6-neighbor-address-holder>
                          </neighbor>
                        </default-vrf>
                      </ipv6-unicast>
                    </ipv6>
                  </address-family>
                </router-bgp>
              </router>
            </rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*af-ipv6-neighbor-address*

Specifies the IPv6 address of the neighbor

**activate**

Enables the exchange of information with BGP neighbors and peer groups

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/allowas-in

Disables the AS\_PATH check function for routes learned from a specified neighbor location so that BGP does not reject routes that contain the recipient BGP speaker's AS number.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
            <neighbor>
              <af-ipv6-neighbor-address-holder>
                <af-ipv6-neighbor-address>
                  23:24</af-ipv6-neighbor-address>
                <af-ipv6-neighbor-address>2004:384d::
                  <allowas-in>9</allowas-in>
                </af-ipv6-neighbor-address>
              </af-ipv6-neighbor-address-holder>
            </neighbor>
          </default-vrf>
        </ipv6-unicast>
      </ipv6>
    </address-family>
  </router-bgp>
</router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*af-ipv6-neighbor-address*

Specifies the IPv6 address of the neighbor

*allowas-in*

Specifies the number of times that the AS path of a received route may contain the recipient BGP speaker's AS number and still be accepted. The values can range from 1 through 10

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/capability

Advertises outbound route filter (ORF) capabilities to peer routers.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
            <neighbor>
              <af-ipv6-neighbor-address-holder>
                <af-ipv6-neighbor-address>
                  <af-ipv6-neighbor-address>2004:384d::
23:24</af-ipv6-neighbor-address>
                  <af-neighbor-capability>
                    <orf>
                      <prefixlist>
                        <prefixlist-status></prefixlist-
status>
                        <prefixlist-send></prefixlist-
send>
                        <prefixlist-receive></prefixlist-
receive>
                      </prefixlist>
                    </orf>
                  </af-neighbor-capability>
                </af-ipv6-neighbor-address>
              </af-ipv6-neighbor-address-holder>
            </neighbor>
          </default-vrf>
        </ipv6-unicast>
      </ipv6>
    </address-family>
  </router-bgp>
</router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*af-ipv6-neighbor-address*

Specifies the IPv6 address of the neighbor

*prefixlist-send*

Enables the ORF prefix list capability in send mode

*prefixlist-receive*

Enables the ORF prefix list capability in receive mode

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/default-originate

Configures the device to send the default route 0.0.0.0 to a neighbor.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <neighbor>
                <af-ipv6-neighbor-address-holder>
                  <af-ipv6-neighbor-address>
                    <af-ipv6-neighbor-address>2004:384d::
23:24</af-ipv6-neighbor-address>
                                <default-originate>
                                <default-originate-status></default-
originate-status>
                                <default-originate-route-map>route1</
default-originate-route-map>
                                </default-originate>
                                </af-ipv6-neighbor-address>
                                </af-ipv6-neighbor-address-holder>
                                </neighbor>
                                </default-vrf>
                                </ipv6-unicast>
                                </ipv6>
                                </address-family>
                                </router-bgp>
                                </router>
                                </rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*af-ipv6-neighbor-address*

Specifies the IPv6 address of the neighbor

*default-originate-route-map*

Optionally injects the default route conditionally, depending on the match conditions in the route map



## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/maximum-prefix

Specifies the maximum number of IP network prefixes (routes) that can be learned from a specified neighbor or peer group.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <neighbor>
                <af-ipv6-neighbor-address-holder>
                  <af-ipv6-neighbor-address>
                    <af-ipv6-neighbor-address>2004:384d::
23:24</af-ipv6-neighbor-address>
                                <maximum-prefix>
                                  <max-prefix-limit>10</max-prefix-limit>
                                  <threshold-holder>
                                    <threshold>20</threshold>
                                    <teardown></teardown>
                                  </threshold-holder>
                                </maximum-prefix>
                              </af-ipv6-neighbor-address>
                            </af-ipv6-neighbor-address-holder>
                          </neighbor>
                        </default-vrf>
                      </ipv6-unicast>
                    </ipv6>
                  </address-family>
                </router-bgp>
              </router>
            </rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *af-ipv6-neighbor-address*

Specifies the IPv6 address of the neighbor

#### *max-prefix-limit*

Specifies the maximum number of IP prefixes that can be learned. The value can range from 0 through 4294967295. The default value is 0 (unlimited)

#### *threshold*

Specifies the percentage of the value specified by num that causes a syslog message to be generated. The value can range from 1 through 100. The default value is 100

#### **teardown**

Tears down the neighbor session if the maximum number of IP prefixes is exceeded

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/prefix-list

Filters the outgoing and incoming route updates to or from a particular BGP neighbor according to IP address and mask length.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <neighbor>
                <af-ipv6-neighbor-address-holder>
                  <af-ipv6-neighbor-address>
                    <af-ipv6-neighbor-address>2004:384d::
23:24</af-ipv6-neighbor-address>
                                <prefix-list>
                                  <direction-in>
                                    <prefix-list-direction-in-prefix-
name>prefix1</prefix-list-direction-in-prefix-name>
                                    <prefix-list-direction-in></prefix-
list-direction-in>
                                  </direction-in>
                                </prefix-list>
                              </af-ipv6-neighbor-address>
                            </af-ipv6-neighbor-address-holder>
                          </neighbor>
                        </default-vrf>
                      </ipv6-unicast>
                    </ipv6>
                  </address-family>
                </router-bgp>
              </router>
            </rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- af-ipv6-neighbor-address*  
Specifies the IPv6 address of the neighbor
- prefix-list-direction-in-prefix-name*  
Specifies the name of the prefix list
- prefix-list-direction-in*  
Specifies the direction
- in**  
Applies the filter in incoming routes
- out**  
Applies the filter in outgoing routes

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/filter-list

Specifies a filter list to be applied to updates from or to the specified neighbor.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
            <neighbor>
              <af-ipv6-neighbor-address-holder>
                <af-ipv6-neighbor-address>
                  <af-ipv6-neighbor-address>2004:384d::
23:24</af-ipv6-neighbor-address>
                <filter-
list>
                  <prefix-list>
                    <direction-in>
                      <prefix-list-direction-in-prefix-
name>prefix1</prefix-list-direction-in-prefix-
prefix-list-direction-in>
                      <prefix-list-direction-in></
                    </direction-in>
                  </prefix-list>
                </filter-list>
              </af-ipv6-neighbor-address>
            </af-ipv6-neighbor-address-holder>
          </neighbor>
        </default-vrf>
      </ipv6-unicast>
    </ipv6>
  </address-family>
</router-bgp>
</router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*af-ipv6-neighbor-address*

Specifies the IPv6 address of the neighbor

*prefix-list-direction-in-prefix-name*

Specifies the name of the filter list

*prefix-list-direction-in*

Specifies that the list is applied on updates received from the neighbor

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/route-map

Filters the outgoing and incoming route updates to or from a particular BGP neighbor according to a set of attributes defined in a route map.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <neighbor>
                <af-ipv6-neighbor-address-holder>
                  <af-ipv6-neighbor-address>
                    <neighbor-route-map>
                      <neighbor-route-map-direction-in>
                        <neighbor-route-map-name-direction-in>
                          in>route1</neighbor-route-map-name-direction-in>
                        </neighbor-route-map-direction-in>
                      </neighbor-route-map>
                    </af-ipv6-neighbor-address>
                  </af-ipv6-neighbor-address-holder>
                </neighbor>
              </default-vrf>
            </ipv6-unicast>
          </ipv6>
        </address-family>
      </router-bgp>
    </router>
  </rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- neighbor-route-map-name-direction-in*  
Specifies the name of the route map

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/route-reflector-client

Configures a neighbor to be a route-reflector client.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
            <neighbor>
              <af-ipv6-neighbor-address-holder>
                <af-ipv6-neighbor-address>
                  <af-ipv6-neighbor-address>2004:384d::
23:24</af-ipv6-neighbor-address>
                  <route-reflector-client></route-reflector-
client>
                </af-ipv6-neighbor-address>
              </af-ipv6-neighbor-address-holder>
            </neighbor>
          </default-vrf>
        </ipv6-unicast>
      </ipv6>
    </address-family>
  </router-bgp>
</router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*af-ipv6-neighbor-address*

Specifies the IPv6 address of the neighbor

**route-reflector-client**

Enables a neighbor to be a route-reflector client

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/send-community

Enables sending the community attribute in updates to the specified BGP neighbor.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <neighbor>
                <af-ipv6-neighbor-address-holder>
                  <af-ipv6-neighbor-address>
                    <af-ipv6-neighbor-address>2004:384d::
23:24</af-ipv6-neighbor-address>
                                <send-community>
                                  <send-community-status></send-community-
status>
                                <both></both>
                                  </send-community>
                                </af-ipv6-neighbor-address>
                              </af-ipv6-neighbor-address-holder>
                            </neighbor>
                          </default-vrf>
                        </ipv6-unicast>
                      </ipv6>
                    </address-family>
                  </router-bgp>
                </router>
              </rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*af-ipv6-neighbor-address*

Specifies the IPv6 address of the neighbor

*send-community-status*

Specifies sending community status

**both**

Sends both standard and extended attributes

**extended**

Sends extended attributes

**standard**

Sends standard attributes

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/timers

Specifies how frequently a device sends KEEPALIVE messages to its BGP neighbors, as well as how long the device waits for KEEPALIVE or UPDATE messages before concluding that a neighbor is dead.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
            <neighbor>
              <af-ipv6-neighbor-address-holder>
                <af-ipv6-neighbor-address>
                  <af-ipv6-neighbor-address>2004:384d::
23:24</af-ipv6-neighbor-address>
                  <timers>
                    <nei-keep-alive>65</nei-keep-alive>
                    <nei-hold-time>185</nei-hold-time>
                  </timers>
                </af-ipv6-neighbor-address>
              </af-ipv6-neighbor-address-holder>
            </neighbor>
          </default-vrf>
        </ipv6-unicast>
      </ipv6>
    </address-family>
  </router-bgp>
</router>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *af-ipv6-neighbor-address*

Specifies the IPv6 address of the neighbor

#### *nei-keep-alive*

Specifies the frequency with which a device sends keepalive messages to a peer. The value can range from 0 through 65535 seconds. The default value is 60 seconds

#### *nei-hold-time*

Specifies the interval in seconds that a device waits to receive a keepalive message from a peer before declaring that peer dead. The value can range from 0 through 65535 seconds. The default interval is 180 seconds

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/unsuppress-map

Removes route suppression from BGP neighbor routes when those routes have been suppressed as a result of aggregation. All routes matching route-map rules are unsuppressed.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <neighbor>
                <af-ipv6-neighbor-address-holder>
                  <af-ipv6-neighbor-address>
                    <af-ipv6-neighbor-address>2004:384d::
23:24</af-ipv6-neighbor-address>
                                <unsuppress-map>
                                  <af-ipv6-neighbor-address>route1</map-
name>
                                </unsuppress-map>
                              </af-ipv6-neighbor-address>
                            </af-ipv6-neighbor-address-holder>
                          </neighbor>
                        </default-vrf>
                      </ipv6-unicast>
                    </ipv6>
                  </address-family>
                </router-bgp>
              </router>
            </rbridge-id>
```

### Parameters

- rbridge-id**  
Specifies the RBridge ID
- af-ipv6-neighbor-address**  
Specifies the IPv6 address of the neighbor
- unsuppress-map af-ipv6-neighbor-address**  
Specifies the name of the route map



## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/update-source

Configures the BGP device to communicate with a neighbor through a specified interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
            <neighbor>
              <af-ipv6-neighbor-address-holder>
                <af-ipv6-neighbor-address>
                  <af-ipv6-neighbor-address>2004:384d::
23:24</af-ipv6-neighbor-address>
                  <update-source>
                    <ethernet-interface>
                      <interface-type>fortygigabitethernet</
interface-type>
                      <ethernet>1/0/50</ethernet>
                    </ethernet-interface>
                  </update-source>
                </af-ipv6-neighbor-address>
              </af-ipv6-neighbor-address-holder>
            </neighbor>
          </default-vrf>
        </ipv6-unicast>
      </ipv6>
    </address-family>
  </router-bgp>
</router>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- af-ipv6-neighbor-address*  
Specifies the IPv6 address of the neighbor
- interface-type*  
Specifies the interface type
- ethernet*  
Specifies the interface name

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/neighbor/weight

Specifies a weight that the device will add to routes that are received from the specified BGP neighbor.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <neighbor>
                <af-ipv6-neighbor-address-holder>
                  <af-ipv6-neighbor-address>
                    <af-ipv6-neighbor-address>2004:384d::
23:24</af-ipv6-neighbor-address>
                    <af-nei-weight>10</af-nei-weight>
                  </af-ipv6-neighbor-address>
                </af-ipv6-neighbor-address-holder>
              </neighbor>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*af-ipv6-neighbor-address*

Specifies the IPv6 address of the neighbor

*af-nei-weight*

Specifies the weight. The value can range from 1 through 65535

# rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/network

Configures the device to advertise a BGP network.

## Usage

```
rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <network>
                <network-ipv6-address>2001:db8:12d:1300::/64</network-
ipv6-address>
                <network-weight>10</network-weight>
                <backdoor></backdoor>
                <network-route-map>route1</network-route-map>
              </network>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

## Parameters

### *rbridge-id*

Specifies the RBridge ID

### *network-ipv6-address*

Specifies the Network and mask in CIDR notation

### *network-weight*

Specifies a weight to be added to routes to this network. The value can range from 0 through 65535. The default value is 0

### **backdoor**

Changes administrative distance of the route to this network from the EBGp administrative distance (the default is 20) to the local BGP4 weight (the default is 200), tagging the route as a backdoor route

### *network-route-map*

Specifies a route map with which to set or change BGP4 attributes for the network to be advertised

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/next-hop-enable-default

Configures the device to use the BGP default route as the next hop.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <next-hop-enable-default></next-hop-enable-default>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**next-hop-enable-default**

Enables the device to use the BGP default route as the next hop

# rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/next-hop-recursion

Enables BGP recursive next-hop lookups.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <ipv6-ucast-next-hop-recursion></ipv6-ucast-next-hop-
recursion>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*ipv6-ucast-next-hop-recursion*

Enables BGP recursive next-hop lookups

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/ redistribute/bgp/metric

Redistributes BGP4 routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-ipv6-uc-and-vrf-cmds-call-point-holder>
                <redistribute>
                  <bgp>
                    <bgp-metric>40</bgp-metric>
                  </bgp>
                </redistribute>
              </af-ipv6-uc-and-vrf-cmds-call-point-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*bgp-metric*

Specifies a metric for redistributed routes. The value can range from 0 through 65535

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/ redistribute/bgp/route-map

Configures the device to redistribute IPv6 routes from one routing domain to another.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-ipv6-uc-and-vrf-cmds-call-point-holder>
                <redistribute>
                  <bgp>
                    <bgp-route-map>route1</bgp-route-map>
                  </bgp>
                </redistribute>
              </af-ipv6-uc-and-vrf-cmds-call-point-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*bgp-route-map*

Specifies a route map to be consulted before a route is added to the routing table

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/redistribute/connected/metric

Redistributes directly connected routes into BGP4+.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-ipv6-uc-and-vrf-cmds-call-point-holder>
                <redistribute>
                  <connected>
                    <redistribute-connected></redistribute-
connected>
                    <unicast-metric>50</unicast-metric>
                  </connected>
                </redistribute>
              </af-ipv6-uc-and-vrf-cmds-call-point-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*unicast-metric*

Specifies a metric for redistributed routes. The value can range from 0 through 65535



## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/redistribute/connected/route-map

Configures the device to redistribute directly connected IPv6 routes from one routing domain to another.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-ipv6-uc-and-vrf-cmds-call-point-holder>
                <redistribute>
                  <connected>
                    <redistribute-connected></redistribute-
connected>
                    <redistribute-route-map>route1</redistribute-
route-map>
                  </connected>
                </redistribute>
              </af-ipv6-uc-and-vrf-cmds-call-point-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*redistribute-route-map*

Specifies a route map to be consulted before a route is added to the routing table

# rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/redistribute/ospf/match

Redistributes OSPF routes.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-ipv6-uc-and-vrf-cmds-call-point-holder>
                <redistribute>
                  <ospf>
                    <redistribute-ospf></redistribute-ospf>
                    <match>
                      <ospf-internal></ospf-internal>
                    </match>
                  </ospf>
                </redistribute>
              </af-ipv6-uc-and-vrf-cmds-call-point-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

## Parameters

### *rbridge-id*

Specifies the RBridge ID

### *match*

Specifies the type of route

#### **external1**

Specifies OSPF Type 1 external routes

#### **external2**

Specifies OSPF Type 2 external routes

#### **internal**

Specifies OSPF internal routes

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/ redistribute/ospf/metric

Redistributes OSPF metric routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-ipv6-uc-and-vrf-cmds-call-point-holder>
                <redistribute>
                  <ospf>
                    <redistribute-ospf></redistribute-ospf>
                    <ospf-metric>50</ospf-metric>
                  </ospf>
                </redistribute>
              </af-ipv6-uc-and-vrf-cmds-call-point-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*ospf-metric*

Specifies a metric for redistributed routes. The value can range from 0 through 65535

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/redistribute/ospf/route-map

Configures the device to redistribute IPv6 OSPF routes from one routing domain to another.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-ipv6-uc-and-vrf-cmds-call-point-holder>
                <redistribute>
                  <ospf>
                    <redistribute-ospf></redistribute-ospf>
                    <ospf-route-map>route1</ospf-route-map>
                  </ospf>
                </redistribute>
              </af-ipv6-uc-and-vrf-cmds-call-point-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*ospf-route-map*

Specifies a route map to be consulted before a route is added to the routing table

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/rib-route-limit

Limits the maximum number of BGP Routing Information Base (RIB) routes that can be installed in the Routing Table Manager (RTM).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <rib-route-limit>100</rib-route-limit>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*rib-route-limit*

Specifies the maximum number of RIB routes to be installed in the RTM. The value can range from 1 through 65535

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/table-map

Maps external entry attributes into the BGP routing table, ensuring that those attributes are preserved after being redistributed into OSPF.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <table-map>
                  <table-map-route-map>route1</table-map-route-map>
                </table-map>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*table-map-route-map*

Specifies a route map to be whose attributes are to be preserved. The value can range from 1 through 63 ASCII characters

## rbridge-id/{rbridge-number}/router/bgp/address-family/ipv6/unicast/update-time

Configures the interval at which BGP next-hop tables are modified. BGP next-hop tables should always have IGP (non-BGP) routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <ipv6>
          <ipv6-unicast>
            <default-vrf>
              <default-vrf-selected></default-vrf-selected>
              <af-common-cmds-holder>
                <update-time>15</update-time>
              </af-common-cmds-holder>
            </default-vrf>
          </ipv6-unicast>
        </ipv6>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*update-time*

Specifies the update time in seconds. The value can range from 0 through 30. The default value is 5 seconds

# rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn

Configures a routing session using Layer 2 Virtual Private Network (L2VPN) Ethernet Virtual Private Network (EVPN) endpoint provisioning address information.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <l2vpn>
          <evpn></evpn>
        </l2vpn>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*evpn*

Configures a routing session using Layer 2 Virtual Private Network (L2VPN) Ethernet Virtual Private Network (EVPN) endpoint provisioning address information

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |



# rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/graceful-restart

Enables the BGP graceful restart capability.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <l2vpn>
          <evpn>
            <graceful-restart>
              <graceful-restart-status></graceful-restart-status>
            </graceful-restart>
          </evpn>
        </l2vpn>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*graceful-restart-status*

Enables the BGP graceful restart capability

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/graceful-restart/purge-time

Configures the maximum period of time for which a restarting device maintains stale routes in the BGP routing table before purging them.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <l2vpn>
          <evpn>
            <graceful-restart>
              <purge-time>300</purge-time>
            </graceful-restart>
          </evpn>
        </l2vpn>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*purge-time*

Specifies the maximum period of time, in seconds, for which a restarting device maintains stale routes in the BGP routing table before purging them. The default value is 600 seconds. The configurable range of values is from 1 to 3600 seconds

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

# rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/graceful-restart/restart-time

Configures the restart-time advertised to graceful restart-capable neighbors.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <l2vpn>
          <evpn>
            <graceful-restart>
              <restart-time>400</restart-time>
            </graceful-restart>
          </evpn>
        </l2vpn>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*restart-time*

Specifies the restart-time, in seconds, advertised to graceful restart-capable neighbors. The default value is 120 seconds. The configurable range of values is from 1 to 3600 seconds

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/graceful-restart/stale-routes-time

Configures the maximum period of time that a helper device will wait for an EOR message from a peer.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <l2vpn>
          <evpn>
            <graceful-restart>
              <stale-routes-time>450</stale-routes-time>
            </graceful-restart>
          </evpn>
        </l2vpn>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*stale-routes-time*

Specifies the maximum period of time, in seconds, that a helper device will wait for an EOR message from a peer. All stale paths are deleted when this time period expires. The default value is 360 seconds. The configurable range of values is from 1 to 3600 seconds

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

# rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/neighbor/next-hop-unchanged

Enables BGP to send updates to eBGP peers with the next-hop attribute unchanged.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <l2vpn>
          <evpn>
            <neighbor>
              <evpn-neighbor-ipv4>
                <evpn-neighbor-ipv4-address>1.1.1.1</evpn-neighbor-
ip4-address>
                <next-hop-unchanged></next-hop-unchanged>
              </evpn-neighbor-ipv4>
            </neighbor>
          </evpn>
        </l2vpn>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*evpn-neighbor-ipv4-address*

Specifies the IPv4 neighbor address

**next-hop-unchanged**

Enables BGP to send updates to eBGP multihop peers with the next-hop attribute unchanged

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/retain/route-target

Configures a route reflector (RR) to accept all route targets (RTs).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <l2vpn>
          <evpn>
            <retain>
              <route-target>
                <all></all>
              </route-target>
            </retain>
          </evpn>
        </l2vpn>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**all**

Sets a route reflector (RR) to accept all route targets (RTs)

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

# rbridge-id/{rbridge-number}/router/bgp/address-family/l2vpn/evpn/vtep-discovery

Enables automatic VXLAN tunnel endpoint (VTEP) discovery by BGP.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <address-family>
        <l2vpn>
          <evpn>
            <vtep-discovery></vtep-discovery>
          </evpn>
        </l2vpn>
      </address-family>
    </router-bgp>
  </router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

**vtep-discovery**

Enables automatic VXLAN tunnel endpoint (VTEP) discovery by BGP

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/router/bgp/always-compare-med

Configures the device always to compare the Multi-Exit Discriminators (MEDs), regardless of the autonomous system (AS) information in the paths.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <always-compare-med></always-compare-med>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**always-compare-med**

Enables the device to always compare the Multi-Exit Discriminators (MEDs)



## rbridge-id/{rbridge-number}/router/bgp/as-path-ignore

Disables the comparison of the autonomous system (AS) path lengths of otherwise equal paths.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <as-path-ignore></as-path-ignore>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**as-path-ignore**

Disables the comparison of the autonomous system (AS) path lengths of otherwise equal paths

# rbridge-id/{rbridge-number}/router/bgp/auto-shutdown-new-neighbors

Auto shuts down new neighbors.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <auto-shutdown-new-neighbors></auto-shutdown-new-neighbors>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

**auto-shutdown-new-neighbors**

Auto shuts down new neighbors

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/router/bgp/bfd/holdover-interval

Sets the time interval for which OSPF or BGP routes are withdrawn after a BFD session is declared down.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <bfd>
          <holdover-interval>20</holdover-interval>
        </bfd>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*holdover-interval*

Specifies BFD holdover-time interval in seconds. The values can range from 1 through 30. The default value is 0

## rbridge-id/{rbridge-number}/router/bgp/bfd/interval

Configures Bidirectional Forwarding Detection (BFD) session parameters on an interface or on a VXLAN overlay gateway site.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <bfd>
          <interval>
            <min-tx>550</min-tx>
            <min-rx>250</min-rx>
            <multiplier>4</multiplier>
          </interval>
        </bfd>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*min-tx*

Specifies the interval a device waits to send a control packet to BFD peers. The value can range from 50 through 30000 milliseconds. The default value is 200 milliseconds on Brocade VDX 8770 platforms

*min-rx*

Specifies the interval a device waits to receive a control packet from BFD peers. The value can range from 50 through 30000 milliseconds. The default value is 200 milliseconds on Brocade VDX 8770 platforms

*multiplier*

Specifies the number of consecutive BFD control packets that must be missed from a BFD peer before BFD determines that the connection to that peer is not operational. The values can range from 3 through 50. The default value is 3

## rbridge-id/{rbridge-number}/router/bgp/capability/as4-enable

Enables 4-byte autonomous system number (ASN) capability at the BGP global level.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <capability>
          <as4-enable></as4-enable>
        </capability>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**as4-enable**

Enables 4-byte autonomous system number (ASN) capability

## rbridge-id/{rbridge-number}/router/bgp/cluster-id

Configures a cluster ID for the route reflector.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <cluster-id>
          <cluster-id-value>500</cluster-id-value>
        </cluster-id>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*cluster-id-value*

Specifies the integer value for cluster ID. The value can range from 1 through 65535

## rbridge-id/{rbridge-number}/router/bgp/cluster-id/ipv4-address

Configures a IPv4 cluster ID.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <cluster-id>
          <cluster-id-ipv4-address>1.1.1.1</cluster-id-ipv4-address>
        </cluster-id>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*cluster-id-ipv4-address*

Specifies the IPv4 address in dotted-decimal notation

## rbridge-id/{rbridge-number}/router/bgp/compare-med-empty- aspath

Enables comparison of Multi-Exit Discriminators (MEDs) for internal routes that originate within the local autonomous system (AS) or confederation.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <router>  
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">  
      <router-bgp-attributes>  
        <compare-med-empty-aspath></compare-med-empty-aspath>  
      </router-bgp-attributes>  
    </router-bgp>  
  </router>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**compare-med-empty-*aspath***

Enables comparison of Multi-Exit Discriminators (MEDs) for internal routes



## rbridge-id/{rbridge-number}/router/bgp/compare-routerid

Enables comparison of device IDs, so that the path-comparison algorithm compares the device IDs of neighbors that sent otherwise equal-length paths.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <compare-routerid></compare-routerid>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**compare-routerid**

Enables comparison of device IDs

## rbridge-id/{rbridge-number}/router/bgp/confederation/identifier

Configures a BGP confederation identifier.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <confederation>
          <identifier>40</identifier>
        </confederation>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*identifier*

Specifies an autonomous system number (ASN). The value can range from 1 through 4294967295

## rbridge-id/{rbridge-number}/router/bgp/confederation/peers

Configures subautonomous systems to belong to a single confederation.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <confederation>
          <peers>45</peers>
        </confederation>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*peers*

Specifies the autonomous system (AS) numbers for BGP peers that will belong to the confederation. The value can range from 1 through 4294967295

## rbridge-id/{rbridge-number}/router/bgp/default-local-preference

Enables setting of a local preference value to indicate a degree of preference for a route relative to that of other routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <default-local-preference>110</default-local-preference>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*default-local-preference*

Specifies the local preference value. The value can range from 0 through 65535

## rbridge-id/{rbridge-number}/router/bgp/distance

Changes the default administrative distances for EBGp, IBGP, and local BGP.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <distance>
          <ext-route-distance>20</ext-route-distance>
          <int-route-distance>25</int-route-distance>
          <lcl-route-distance>30</lcl-route-distance>
        </distance>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*ext-route-distance*

Specifies the EBGp distance. The value can range from 1 through 255

*int-route-distance*

Specifies the IBGP distance. The value can range from 1 through 255

*lcl-route-distance*

Specifies the local BGP4 and BGP4+ distance. The value can range from 1 through 255

## rbridge-id/{rbridge-number}/router/bgp/enforce-first-as

Enforces the use of the first autonomous system (AS) path for external BGP (EBGP) routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <enforce-first-as></enforce-first-as>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**enforce-first-as**

Enforces the use of the first autonomous system (AS) path for external BGP (EBGP) routes

## rbridge-id/{rbridge-number}/router/bgp/fast-external-fallover

Resets the session if a link to an EBGP peer goes down.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <fast-external-fallover></fast-external-fallover>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**fast-external-fallover**

Resets the session if a link to an EBGP peer goes down

## rbridge-id/{rbridge-number}/router/bgp/install-igp-cost

Configures the device to use the IGP cost instead of the default BGP4or BGP4+ Multi-Exit Discriminator (MED) value as the route cost when the route is added to the Routing Table Manager (RTM).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <install-igp-cost></install-igp-cost>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**install-igp-cost**

Enables the device to use the IGP cost instead of the default BGP4or BGP4+ Multi-Exit Discriminator (MED) value



## rbridge-id/{rbridge-number}/router/bgp/local-as

Specifies the BGP autonomous system number (ASN) where the device resides.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <local-as>200</local-as>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*local-as*

Specifies the local ASN. The value can range from 1 through 4294967295

## rbridge-id/{rbridge-number}/router/bgp/log-dampening-debug

Logs dampening debug messages.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <router>  
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">  
      <router-bgp-attributes>  
        <log-dampening-debug></log-dampening-debug>  
      </router-bgp-attributes>  
    </router-bgp>  
  </router>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**log-dampening-debug**

Logs dampening debug messages

## rbridge-id/{rbridge-number}/router/bgp/med-missing-as-worst

Configures the device to favor a route that has a Multi-Exit Discriminator (MED) over a route that does not have one.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <med-missing-as-worst></med-missing-as-worst>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**med-missing-as-worst**

Enables the device to favor a route that has a Multi-Exit Discriminator (MED) over a route that does not have one

## rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}

Assigns a BGP neighbor to a specified IPv4 address to provide a variety of configuration options.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
            </neighbor-addr>
          </neighbor-ips>
        </neighbor>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*router-bgp-neighbor-address*

Specifies the router bgp neighbor address

*ip-address*

Specifies the IPv4 address of the neighbor

*ipv6-address*

Specifies the IPv6 address of the neighbor

*peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

## rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/advertisement-interval

Enables changes to the interval over which a specified neighbor or peer group holds route updates before forwarding them.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-
address>
              <advertisement-interval>
                <value>10</value>
              </advertisement-interval>
            </neighbor-addr>
          </neighbor-ips>
        </neighbor>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*router-bgp-neighbor-address*

Specifies the router bgp neighbor address

*ip-address*

Specifies the IPv4 address of the neighbor

*ipv6-address*

Specifies the IPv6 address of the neighbor

*peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

*value*

Specifies the interval. The value can range from 0 through 3600 seconds. The default value is 0 second

## rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/as-override

Replaces the autonomous system number (ASN) of the originating device with the ASN of the sending BGP device.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
              <as-override></as-override>
            </neighbor-addr>
          </neighbor-ips>
        </neighbor>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*router-bgp-neighbor-address*

Specifies the router bgp neighbor address

*ip-address*

Specifies the IPv4 address of the neighbor

*ipv6-address*

Specifies the IPv6 address of the neighbor

*peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

**as-override**

Replaces the autonomous system number (ASN) of the originating device with the ASN of the sending BGP device

# rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/bfd

Enables BFD sessions for specified BGP neighbors or peer groups.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-
address>
            <bfd>
              <bfd-enable></bfd-enable>
            </bfd>
          </neighbor-addr>
        </neighbor-ips>
      </neighbor>
    </router-bgp-attributes>
  </router-bgp>
</router>
</rbridge-id>
```

## Parameters

### *rbridge-id*

Specifies the RBridge ID

### *router-bgp-neighbor-address*

Specifies the router bgp neighbor address

#### *ip-address*

Specifies the IPv4 address of the neighbor

#### *ipv6-address*

Specifies the IPv6 address of the neighbor

#### *peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

### *bfd-enable*

Enables BFD session

## rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/bfd/holdover-interval

Configures the time interval for which BFD session DOWN notifications are delayed before notification that a BFD session is down.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
              <as-override></as-override>
              <bfd>
                <holdover-interval>25</holdover-interval>
              </bfd>
            </neighbor-addr>
          </neighbor-ips>
        </neighbor>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*router-bgp-neighbor-address*

Specifies the router bgp neighbor address

*ip-address*

Specifies the IPv4 address of the neighbor

*ipv6-address*

Specifies the IPv6 address of the neighbor

*peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

*holdover-interval*

Specifies the BFD holdover-time interval in seconds. The value can range from 1 through 30. The default value is 0



# rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/bfd/interval

Configures the interval a device waits to send a control packet to BFD peers.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-
address>
            <bfd>
              <interval>
                <min-tx>250</min-tx>
                <min-rx>250</min-rx>
                <multiplier>4</multiplier>
              </interval>
            </bfd>
          </neighbor-addr>
        </neighbor-ips>
      </neighbor>
    </router-bgp-attributes>
  </router-bgp>
</router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*router-bgp-neighbor-address*

Specifies the router bgp neighbor address

*ip-address*

Specifies the IPv4 address of the neighbor

*ipv6-address*

Specifies the IPv6 address of the neighbor

*peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

*min-tx*

Specifies the interval a device waits to send a control packet to BFD peers. On Brocade VDX 6740, VDX 6740T, and VDX 6940 platforms, valid values range from 50 to 30000, and the default is 500. On Brocade VDX 8770 platforms, valid values range from 50 to 30000, and the default is 200

*min-rx*

Specifies the interval a device waits to receive a control packet from BFD peers. On Brocade VDX 6740, VDX 6740T, and VDX 6940 platforms, valid values range from 50 to 30000, and the default is 500. On Brocade VDX 8770 platforms, valid values range from 50 to 30000, and the default is 200

*multiplier*

Specifies the number of consecutive BFD control packets that must be missed from a BFD peer before BFD determines that the connection to that peer is not operational. The value can range from 3 through 50. The default value is 3

## rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/capability/as4

Enables support for 4-byte autonomous system numbers (ASNs) at the neighbor or peergroup level.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-
address>
                <af-neighbor-capability>
                  <as4>
                    <neighbor-as4-enable></neighbor-as4-enable>
                  </as4>
                </af-neighbor-capability>
              </neighbor-addr>
            </neighbor-ips>
          </neighbor>
        </router-bgp-attributes>
      </router-bgp>
    </router>
  </rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*router-bgp-neighbor-address*

Specifies the router bgp neighbor address

*ip-address*

Specifies the IPv4 address of the neighbor

*ipv6-address*

Specifies the IPv6 address of the neighbor

*peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

*neighbor-as4-enable*

Enables support for 4-byte autonomous system numbers (ASNs) at the neighbor or peergroup level

## rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/description

Specifies a name for a neighbor.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
              <description>neighbordesc</description>
            </neighbor-addr>
          </neighbor-ips>
        </neighbor>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*router-bgp-neighbor-address*

Specifies the router bgp neighbor address

*ip-address*

Specifies the IPv4 address of the neighbor

*ipv6-address*

Specifies the IPv6 address of the neighbor

*peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

*description*

Specifies the name of the neighbor, an alphanumeric string up to 220 characters long

# rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/ebgp-btsh

Enables BGP time to live (TTL) security hack protection (BTSH) for eBGP.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>10.10.10.10</router-bgp-
neighbor-address>
              <ebgp-btsh></ebgp-btsh>
            </neighbor-addr>
          </neighbor-ips>
        </neighbor>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

## Parameters

### *rbridge-id*

Specifies the RBridge ID

### *router-bgp-neighbor-address*

Specifies the router bgp neighbor address

#### *ip-address*

Specifies the IPv4 address of the neighbor

#### *ipv6-address*

Specifies the IPv6 address of the neighbor

#### *peer-group-name*

Specifies the peer group name configured by the neighbor peer-group-name command

### **ebgp-btsh**

Enables BGP time to live (TTL) security hack protection (BTSH) for eBGP

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/ebgp-multihop

Allows EBGP neighbors that are not on directly connected networks and sets an optional maximum hop count.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-
neighbor-address>
              <ebgp-multihop>
                <ebgp-multihop-count>200</ebgp-multihop-count>
              </ebgp-multihop>
            </neighbor-addr>
          </neighbor-ips>
        </neighbor>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*router-bgp-neighbor-address*

Specifies the router bgp neighbor address

*ip-address*

Specifies the IPv4 address of the neighbor

*ipv6-address*

Specifies the IPv6 address of the neighbor

*peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

*ebgp-multihop-count*

Specifies the maximum hop count (optional). The value can range from 1 through 255

## rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/enforce-first-as

Ensures that a device requires the first ASN listed in the AS\_SEQUENCE field of an AS path-update message from EBGP neighbors to be the ASN of the neighbor that sent the update.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-
address>
              <enforce-first-as>
                <nei-enforce-first-as></nei-enforce-first-as>
              </enforce-first-as>
            </neighbor-addr>
          </neighbor-ips>
        </neighbor>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*router-bgp-neighbor-address*

Specifies the router bgp neighbor address

*ip-address*

Specifies the IPv4 address of the neighbor

*ipv6-address*

Specifies the IPv6 address of the neighbor

*peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

*nei-enforce-first-as*

Enables the device

## rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/local-as

Causes the device to prepend the local autonomous system number (ASN) automatically to routes received from an EBGp peer.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
              <local-as>
                <local-as-value>50</local-as-value>
                <no-prepend></no-prepend>
              </local-as>
            </neighbor-addr>
          </neighbor-ips>
        </neighbor>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*router-bgp-neighbor-address*

Specifies the router bgp neighbor address

*ip-address*

Specifies the IPv4 address of the neighbor

*ipv6-address*

Specifies the IPv6 address of the neighbor

*peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

*local-as-value*

Specifies the local ASN. The value can range from 1 through 4294967295

**no-prepend**

Causes the device to stop prepending the selected ASN



## rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/maxas-limit

Causes the device to discard routes received in UPDATE messages if those routes exceed a maximum AS path length.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-
address>
              <maxas-limit>
                <in>
                  <num-as-in-as-path>200</num-as-in-as-path>
                </in>
              </maxas-limit>
            </neighbor-addr>
          </neighbor-ips>
        </neighbor>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*router-bgp-neighbor-address*

Specifies the router bgp neighbor address

*ip-address*

Specifies the IPv4 address of the neighbor

*ipv6-address*

Specifies the IPv6 address of the neighbor

*peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

*num-as-in-as-path*

Specifies the maximum length of the AS path. The value can range from 0 through 300. The default value is 300

## rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/maxas-limit/disable

Prevents a neighbor from inheriting the configuration from the peer group or global configuration and instead uses the default system value.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-
neighbor-address>
              <maxas-limit>
                <in>
                  <maxas-limit-disable></maxas-limit-disable>
                </in>
              </maxas-limit>
            </neighbor-addr>
          </neighbor-ips>
        </neighbor>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*router-bgp-neighbor-address*

Specifies the router bgp neighbor address

*ip-address*

Specifies the IPv4 address of the neighbor

*ipv6-address*

Specifies the IPv6 address of the neighbor

*peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

*maxas-limit-disable*

Prevents a neighbor from inheriting the configuration from the peer group

## rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/next-hop-self

Causes the device to list itself as the next hop in updates that are sent to the specified neighbor.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-
address>
              <next-hop-self>
                <next-hop-self-always></next-hop-self-always>
              </next-hop-self>
            </neighbor-addr>
          </neighbor-ips>
        </neighbor>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *router-bgp-neighbor-address*

Specifies the router bgp neighbor address

#### *ip-address*

Specifies the IPv4 address of the neighbor

#### *ipv6-address*

Specifies the IPv6 address of the neighbor

#### *peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

#### **next-hop-self-always**

Enables the device to list itself as the next hop in updates that are sent to the specified neighbor

## rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/password

Specifies an MD5 password for securing sessions between the device and a neighbor.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
              <password>2 $UyEtLQ==</password>
            </neighbor-addr>
          </neighbor-ips>
        </neighbor>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*router-bgp-neighbor-address*

Specifies the router bgp neighbor address

*ip-address*

Specifies the IPv4 address of the neighbor

*ipv6-address*

Specifies the IPv6 address of the neighbor

*peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

*password*

Specifies the password of up to 63 characters in length that can contain any alphanumeric character

# rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/peer-group

Configures a BGP neighbor to be a member of a peer group.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-
address>
            <peer-group>mypeergroup1</peer-group>
          </neighbor-addr>
        </neighbor-ips>
      </neighbor>
    </router-bgp-attributes>
  </router-bgp>
</router>
</rbridge-id>
```

## Parameters

### *rbridge-id*

Specifies the RBridge ID

### *router-bgp-neighbor-address*

Specifies the router bgp neighbor address

#### *ip-address*

Specifies the IPv4 address of the neighbor

#### *ipv6-address*

Specifies the IPv6 address of the neighbor

#### *peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

### *peer-group*

Specifies the name of a BGP peer group. The name can be up to 63 characters in length and can be composed of any alphanumeric character

## rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/remote-as

Specifies the autonomous system (AS) in which a remote neighbor resides.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
              <remote-as>55</remote-as>
            </neighbor-addr>
          </neighbor-ips>
        </neighbor>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *router-bgp-neighbor-address*

Specifies the router bgp neighbor address

#### *ip-address*

Specifies the IPv4 address of the neighbor

#### *ipv6-address*

Specifies the IPv6 address of the neighbor

#### *peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

#### *remote-as*

Specifies the Remote AS number (ASN). The value can range from 1 through 4294967295

## rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/remove-private-as

Configures a device to remove private autonomous system numbers (ASNs) from UPDATE messages that the device sends to a neighbor.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-
address>
              <remove-private-as></remove-private-as>
            </neighbor-addr>
          </neighbor-ips>
        </neighbor>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *router-bgp-neighbor-address*

Specifies the router bgp neighbor address

#### *ip-address*

Specifies the IPv4 address of the neighbor

#### *ipv6-address*

Specifies the IPv6 address of the neighbor

#### *peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

#### **remove-private-as**

Enables the device to remove private autonomous system numbers (ASNs) from UPDATE messages that the device sends to a neighbor

## rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/shutdown

Causes a device to shut down the session administratively with its BGP neighbor.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
            <shutdown>
              <shutdown-status></shutdown-status>
            </shutdown>
          </neighbor-addr>
        </neighbor-ips>
      </neighbor>
    </router-bgp-attributes>
  </router-bgp>
</router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*router-bgp-neighbor-address*

Specifies the router bgp neighbor address

*ip-address*

Specifies the IPv4 address of the neighbor

*ipv6-address*

Specifies the IPv6 address of the neighbor

*peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

*shutdown-status*

Shuts down the session



## rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/soft-reconfiguration/inbound

Stores all the route updates received from a BGP neighbor.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-
address>
              <soft-reconfiguration>
                <inbound></inbound>
              </soft-reconfiguration>
            </neighbor-addr>
          </neighbor-ips>
        </neighbor>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *router-bgp-neighbor-address*

Specifies the router bgp neighbor address

#### *ip-address*

Specifies the IPv4 address of the neighbor

#### *ipv6-address*

Specifies the IPv6 address of the neighbor

#### *peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

#### **inbound**

Stores all the route updates received from a BGP neighbor.

## rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/timers

Specifies how frequently a device sends KEEPALIVE messages to its BGP neighbors, as well as how long the device waits for KEEPALIVE or UPDATE messages before concluding that a neighbor is dead.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-address>
            <timers>
              <nei-keep-alive>65</nei-keep-alive>
              <nei-hold-time>185</nei-hold-time>
            </timers>
          </neighbor-addr>
        </neighbor-ips>
      </neighbor>
    </router-bgp-attributes>
  </router-bgp>
</router>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *router-bgp-neighbor-address*

Specifies the router bgp neighbor address

#### *ip-address*

Specifies the IPv4 address of the neighbor

#### *ipv6-address*

Specifies the IPv6 address of the neighbor

#### *peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

#### *nei-keep-alive*

Specifies the frequency with which a device sends keepalive messages to a peer. The value can range from 0 through 65535 seconds. The default value is 60 seconds

#### *nei-hold-time*

Specifies the interval in seconds that a device waits to receive a keepalive message from a peer before declaring that peer dead. The value can range from 0 through 65535 seconds. The default value is 180 seconds

# rbridge-id/{rbridge-number}/router/bgp/neighbor/{router-bgp-neighbor-address}/update-source

Configures the BGP device to communicate with a neighbor through a specified interface.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <neighbor>
          <neighbor-ips>
            <neighbor-addr>
              <router-bgp-neighbor-address>1.1.1.1</router-bgp-neighbor-
address>
              <update-source>
                <ethernet-interface>
                  <interface-type>fortygigabitethernet</interface-
type>
                  <ethernet>1/0/50</ethernet>
                </ethernet-interface>
              </update-source>
            </neighbor-addr>
          </neighbor-ips>
        </neighbor>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*router-bgp-neighbor-address*

Specifies the router bgp neighbor address

*ip-address*

Specifies the IPv4 address of the neighbor

*ipv6-address*

Specifies the IPv6 address of the neighbor

*peer-group-name*

Specifies the peer group name configured by the **neighbor peer-group-name** command

*interface-type*

Specifies the interface type

*ethernet*

Specifies the interface name

## rbridge-id/{rbridge-number}/router/bgp/timers

Adjusts the interval at which BGP KEEPALIVE and HOLDTIME messages are sent.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <router-bgp xmlns="urn:brocade.com:mgmt:brocade-bgp">
      <router-bgp-attributes>
        <timers>
          <keep-alive>70</keep-alive>
          <hold-time>190</hold-time>
        </timers>
      </router-bgp-attributes>
    </router-bgp>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*keep-alive*

Specifies the frequency in seconds with which a device sends keepalive messages to a peer. The value can range from 0 through 65535 seconds. The default is value is 60 seconds

*hold-time*

Specifies the interval in seconds that a device waits to receive a keepalive message from a peer before declaring that peer dead. The value can range from 0 through 65535 seconds. The default value is 180 seconds

## rbridge-id/{rbridge-number}/router/ospf

Enables and configures the Open Shortest Path First (OSPF) routing protocol over virtual forward and routing (VRF).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <router>  
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">  
      <vrf>default-vrf</vrf>  
    </ospf>  
  </router>  
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- vrf*  
Specifies the VRF name

## rbridge-id/{rbridge-number}/router/ospf/area/nssa

Creates a not-so-stubby area (NSSA) or modifies its parameters.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>27</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <area>
        <area-id>1.1.1.1</area-id>
        <nssa>
          <metric>
            <nssa-value>1</nssa-value>
          </metric>
        </nssa>
      </area>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*area-id*

Specifies the area address

*nssa-value*

Specifies the additional cost for using a route to or from this area

# rbridge-id/{rbridge-number}/router/ospf/area/prefix-list

Configures prefix list for filtering routes.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <area>
        <area-id>0</area-id>
        <prefix-list>
          <prefix-list-name>prefix1</prefix-list-name>
          <prefix-list-direction>in</prefix-list-direction>
        </prefix-list>
      </area>
    </ospf>
  </router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*area-id*

Specifies the area address in dotted decimal format (A.B.C.D) or in decimal format

*prefix-list-name*

Specifies the name of the prefix list

*prefix-list-direction*

Specifies the direction

**in**

Applies the filter in incoming routes

**out**

Applies the filter in outgoing routes

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/router/ospf/area/range

Specifies area range parameters on an Area Border Router (ABR).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>vrf1</vrf>
      <area>
        <area-id>1</area-id>
        <range>
          <range-address>1.1.1.0</range-address>
          <range-mask>255.255.255.0</range-mask>
          <range-effect>not-advertise</range-effect>
          <range-cost>1</range-cost>
        </range>
      </area>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*area-id*

Specifies the area address in dotted decimal format (A.B.C.D) or in decimal format

*range-address*

Specifies the IP address and mask portion of the range. All network addresses that match this network are summarized in a single route and

advertised by the ABR

*range-effect*

Sets the address range status to DoNotAdvertise; the Type 3 LSA is suppressed, and the component networks remain hidden from other networks. This setting is used to temporarily pause route summarization from the area

*range-cost*

Sets the cost value for the area range. This value is used as the generated summary LSA cost. The range for cost\_value is 1 to 6777214. If this value is not specified, the cost value is the default range metric calculation for the generated summary LSA cost



## rbridge-id/{rbridge-number}/router/ospf/area/stub

Creates a stub area or modifies its parameters.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>vrf1</vrf>
      <area>
        <area-id>1</area-id>
        <stub>2</stub>
      </area>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*area-id*

Specifies the area address

*stub*

Specifies the additional cost for using a route to or from this area. The value can range from 3 through 1048575

## rbridge-id/{rbridge-number}/router/ospf/area/virtual-link

Creates or modifies virtual links for an area.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>vrf1</vrf>
      <area>
        <area-id>1</area-id>
        <virtual-link>
          <virt-link-neighbor>10.1.2.3</virt-link-neighbor>
        </virtual-link>
      </area>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*area-id*

Specifies the area address in dotted decimal format (A.B.C.D) or in decimal format

*virt-link-neighbor*

Specifies the ID of the OSPF router at the remote end of the virtual link.

## rbridge-id/{rbridge-number}/router/ospf/area/virtual-link/retransmit-interval

Configures the time between Link State Advertisement (LSA) retransmissions for adjacencies belonging to the interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>vrf1</vrf>
        <area>
          <area-id>1</area-id>
          <normal></normal>
          <virtual-link>
            <virtual-link-neighbor>1.1.1.1</virtual-link-neighbor>
            <link-properties>
              <link-interval-properties>
                <retransmit-interval>10</retransmit-interval>
              </link-interval-properties>
            </link-properties>
          </virtual-link>
        </area>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*area-id*

Specifies the area address in dotted decimal format (A.B.C.D) or in decimal format

*virtual-link-neighbor*

Specifies the ID of the OSPF router at the remote end of the virtual link

*retransmit-interval*

Specifies the time between Link State Advertisement (LSA) retransmissions for adjacencies belonging to the interface. Set this interval to a value larger than the expected round-trip delay between any two routers on the attached network. The value can range from 0 through 3600 seconds. The default value is 5 seconds

## rbridge-id/{rbridge-number}/router/ospf/area/virtual-link/transmit-delay

Configures the estimated time required to send an LSA on the interface.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ipv6>
    <router>
      <ospf xmlns="urn:brocade.com:mgmt:brocade-ospfv3">
        <vrf>vrfl</vrf>
        <area>
          <area-id>1</area-id>
          <normal></normal>
          <virtual-link>
            <virtual-link-neighbor>1.1.1.1</virtual-link-neighbor>
            <link-properties>
              <link-interval-properties>
                <transmit-delay>2</transmit-delay>
              </link-interval-properties>
            </link-properties>
          </virtual-link>
        </area>
      </ospf>
    </router>
  </ipv6>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*area-id*

Specifies the area address in dotted decimal format (A.B.C.D) or in decimal format

*virtual-link-neighbor*

Specifies the ID of the OSPF router at the remote end of the virtual link

*transmit-delay*

Specifies the estimated time required to send an LSA on the interface. This value must be an integer greater than zero. The age of each LSA in the update packet is incremented by the value of this parameter before transmission occurs. The value can range from 0 through 3600 seconds. The default value is 1 second

## rbridge-id/{rbridge-number}/router/ospf/auto-cost/reference-bandwidth

Configures reference bandwidth.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <auto-cost>
        <reference-bandwidth>
          <ref-bandwidth>100</ref-bandwidth>
        </reference-bandwidth>
      </auto-cost>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*ref-bandwidth*

Specifies the reference bandwidth in Mbps. The value can range from 1 through 4294967

## rbridge-id/{rbridge-number}/router/ospf/auto-cost/reference-bandwidth/use-active-ports

Enables cost calculation for currently active ports only.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <auto-cost>
        <reference-bandwidth>
          <use-active-ports></use-active-ports>
        </reference-bandwidth>
      </auto-cost>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

**use-active-ports**

When set, any dynamic change in bandwidth immediately affects the cost of OSPF routes. This parameter enables cost calculation for currently active ports only

## rbridge-id/{rbridge-number}/router/ospf/bfd

Enables Bidirectional Forwarding Detection (BFD).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <router>  
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">  
      <vrf>default-vrf</vrf>  
      <global-bfd>  
        <bfd-enable></bfd-enable>  
      </global-bfd>  
    </ospf>  
  </router>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*bfd-enable*

Enables Bidirectional Forwarding Detection (BFD)

## rbridge-id/{rbridge-number}/router/ospf/bfd/holdover-interval

Sets the time interval for which OSPF or BGP routes are withdrawn after a BFD session is declared down.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <global-bfd>
        <holdover-interval>12</holdover-interval>
      </global-bfd>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*holdover-interval*

Specifies BFD holdover-time interval in seconds. The value can range from 1 through 20. The default value is 0



# rbridge-id/{rbridge-number}/router/ospf/database-overflow-interval

Configures frequency for monitoring database overflow.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <database-overflow-interval>10</database-overflow-interval>
    </ospf>
  </router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*database-overflow-interval*

Specifies the time interval at which the device checks to see if the overflow condition has been eliminated. The value can range from 0 through 86400 seconds. The default value is 0 second

# rbridge-id/{rbridge-number}/router/ospf/default-information-originate

Controls distribution of default information to an OSPF router.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <default-information-originate>
        <always></always>
        <def-orig-metric>10</def-orig-metric>
        <def-orig-metric-type>type1</def-orig-metric-type>
        <def-orig-route-map>route1</def-orig-route-map>
      </default-information-originate>
    </ospf>
  </router>
</rbridge-id>
```

## Parameters

### *rbridge-id*

Specifies the RBridge ID

### *vrf*

Specifies the VRF name

### **always**

Always advertises the default route. If the route table manager does not have a default route, the router advertises the route as pointing to itself

### *def-orig-metric*

Specifies the cost for reaching the rest of the world through this route. If you omit this parameter and do not specify a value using the default-metric router configuration command, a default metric value of 1 is used. The value can range from 1 through 65535. The default value is 10

### *def-orig-metric-type*

Specifies how the cost of a neighbor metric is determined

#### **type-1**

The metric of a neighbor is the cost between itself and the router plus the cost of using this router for routing to the rest of the world

#### **type-2**

The metric of a neighbor is the total cost from the redistributing routing to the rest of the world

### *def-orig-route-map*

Specifies the route map name

## rbridge-id/{rbridge-number}/router/ospf/default-metric

Sets the default metric value for the OSPF or OSPFv3 routing protocol.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <default-metric>10</default-metric>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*default-metric*

Specifies the OSPF routing protocol metric value. The value can range from 1 through 65535

## rbridge-id/{rbridge-number}/router/ospf/default-passive-interface

Marks all OSPF and OSPFv3 interfaces passive by default.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <default-passive-interface></default-passive-interface>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*default-passive-interface*

Marks all OSPF and OSPFv3 interfaces passive by default

## rbridge-id/{rbridge-number}/router/ospf/distance

Configures an administrative distance value for OSPF and OSPFv3 routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <distance>
        <route-type>external</route-type>
        <dist-value>10</dist-value>
      </distance>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*route-type*

Sets the route type

**external**

Sets the distance for routes learned by redistribution from other routing domains

**inter-area**

Sets the distance for all routes from one area to another area

**intra-area**

Sets the distance for all routes within an area

*dist-value*

Specifies the administrative distance value assigned to OSPF routes. The value can range from 1 through 255. The default value is 110

## rbridge-id/{rbridge-number}/router/ospf/distribute-list/route-map

Creates a route-map distribution list.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <distribute-list>
        <route-map>
          <route-map>routel</route-map>
          <direction-in></direction-in>
        </route-map>
      </distribute-list>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*route-map*

Specifies the name of a route map

*direction-in*

Creates a distribution list for an inbound route map

## rbridge-id/{rbridge-number}/router/ospf/external-lsdb-limit

Configures the maximum size of the external link state database (LSDB).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <external-lsdb-limit>10000000</external-lsdb-limit>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*external-lsdb-limit*

Specify the maximum size of the external LSDB. The maximum allowed value is 14913080

## rbridge-id/{rbridge-number}/router/ospf/graceful-restart

Enables the OSPF Graceful Restart (GR) capability.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <graceful-restart>
        <graceful-restart-enable></graceful-restart-enable>
      </graceful-restart>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*graceful-restart-enable*

Enables the OSPF Graceful Restart (GR) capability



## rbridge-id/{rbridge-number}/router/ospf/graceful-restart/helper-disable

Disables the GR helper capability.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <graceful-restart>
        <graceful-restart-enable></graceful-restart-enable>
        <helper-disable></helper-disable>
      </graceful-restart>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*graceful-restart-enable*

Enables the OSPF Graceful Restart (GR) capability

*helper-disable*

Disables the GR helper capability

## rbridge-id/{rbridge-number}/router/ospf/graceful-restart/restart-time

Configures the maximum restart wait time.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <graceful-restart>
        <graceful-restart-enable></graceful-restart-enable>
        <restart-time>125</restart-time>
      </graceful-restart>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*graceful-restart-enable*

Enables the OSPF Graceful Restart (GR) capability

*restart-time*

Specifies the maximum restart wait time, in seconds, advertised to neighbors. The value can range from 10 to 1800 seconds. The default value is 120 seconds

# rbridge-id/{rbridge-number}/router/ospf/log

Controls the generation of OSPFv2 logs.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <log>
        <adjacency>
          <dr-only></dr-only>
        </adjacency>
      </log>
    </ospf>
  </router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*log*

Specifies the log type

### **adjacency**

Specifies the logging of essential OSPFv2 neighbor state changes

### **all**

Specifies the logging of all syslog messages

### **bad-packet**

Specifies the logging of bad OSPFv2 packets

### **checksum**

Specifies all OSPFv2 packets that have checksum errors

### **database**

Specifies the logging of OSPFv2 LSA-related information

### **retransmit**

Specifies the logging of OSPFv2 retransmission activities

## rbridge-id/{rbridge-number}/router/ospf/maximum-paths

Changes the maximum number of OSPF shared paths.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <maximum-paths>10</maximum-paths>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*maximum-paths*

Specifies the maximum number of paths across which the device balances traffic to a given OSPF destination. The value can range from 1 through 32. The default value is 8

## rbridge-id/{rbridge-number}/router/ospf/max-metric/router-lsa/external-lsa

Modifies the metric of all external type 5 LSAs to equal the specified value or a default value.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <max-metric>
        <router-lsa>
          <external-lsa>
            <external-lsa-val>1212121</external-lsa-val>
          </external-lsa>
        </router-lsa>
      </max-metric>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*external-lsa-val*

Specifies the metric value. The value can range from 1 through 16777214 (0x00001 - 0x00FFFFFFE). The default value is 16711680 (0x00FF0000).

# rbridge-id/{rbridge-number}/router/ospf/max-metric/router-lsa/link

Configures the types of links for which the maximum metric is advertised.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <max-metric>
        <router-lsa>
          <link>
            <transit></transit>
          </link>
        </router-lsa>
      </max-metric>
    </ospf>
  </router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*link*

Specifies the types of links for which the maximum metric is advertised

**all**

Advertises the maximum metric in Router LSAs for all supported link types

**ptp**

Advertises the maximum metric in Router LSAs for point-to-point links

**stub**

Advertises the maximum metric in Router LSAs for stub links

**transit**

Advertises the maximum metric in Router LSAs for transit links. This is the default link type

## rbridge-id/{rbridge-number}/router/ospf/max-metric/router-lsa/summary-lsa

Modifies the metric of all summary type 3 and type 4 LSAs to equal the specified value or a default value.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <max-metric>
        <router-lsa>
          <summary-lsa>
            <summary-lsa-val>16711680</summary-lsa-val>
          </summary-lsa>
        </router-lsa>
      </max-metric>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*summary-lsa-val*

Specifies the summary metric value. The value can range from 1 through 16777214 (0x00001 - 0x00FFFFFFE). The default value is 16711680 (0x00FF0000).

## rbridge-id/{rbridge-number}/router/ospf/metric-type

Configures the default metric type for external routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <ospf-metric-type>type1</ospf-metric-type>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*ospf-metric-type*

Specifies the metric type

**type1**

The metric of a neighbor is the cost between itself and the router plus the cost of using this router for routing to the rest of the world

**type2**

The metric of a neighbor is the total cost from the redistributing routing to the rest of the world



## rbridge-id/{rbridge-number}/router/ospf/neighbor

Manually configures a neighbor.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <neighbor>
        <neighbor-addr>1.1.1.1</neighbor-addr>
      </neighbor>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- vrf*  
Specifies the VRF name
- neighbor-addr*  
Specifies the IPv4 address of the neighbor

## rbridge-id/{rbridge-number}/router/ospf/nssa-translator

Configures Not So Stubby Area (NSSA) Type 7-to-Type 5 Link State Advertisement (LSA) translation.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>vrf1</vrf>
      <nssa-translator></nssa-translator>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

**nssa-translator**

Enables Not So Stubby Area (NSSA) Type 7-to-Type 5 Link State Advertisement (LSA) translation

# rbridge-id/{rbridge-number}/router/ospf/ redistribute/bgp/route-map

Configures the device to redistribute routes from one routing domain to another.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <redistribute>
        <bgp>
          <bgp-route-map>route1</bgp-route-map>
        </bgp>
      </redistribute>
    </ospf>
  </router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*bgp-route-map*

Specifies a route map to be consulted before a route is added to the routing table

## rbridge-id/{rbridge-number}/router/ospf/redistribute/connected/route-map

Configures the device to redistributes directly connected routes from one routing domain to another.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <redistribute>
        <connected>
          <connected-route-map>route1</connected-route-map>
        </connected>
      </redistribute>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*connected-route-map*

Specifies a route map to be consulted before a route is added to the routing table

# rbridge-id/{rbridge-number}/router/ospf/ redistribute/ospf/route-map

Redistributes OSPF routes.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <redistribute>
        <redistribute-ospf>
          <ospf-route-map>route1</ospf-route-map>
        </redistribute-ospf>
      </redistribute>
    </ospf>
  </router>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*ospf-route-map*

Specifies a route map to be consulted before a route is added to the routing table

## rbridge-id/{rbridge-number}/router/ospf/redistribute/static/route-map

Redistributes static routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <redistribute>
        <static>
          <static-route-map>route1</static-route-map>
        </static>
      </redistribute>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*static-route-map*

Specifies a route map to be consulted before a route is added to the routing table

## rbridge-id/{rbridge-number}/router/ospf/rfc1583-compatibility

Configures compatibility with RFC 1583.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>l</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>vrf1</vrf>
      <rfc1583-compatibility></rfc1583-compatibility>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

**rfc1583-compatibility**

Enables compatibility with RFC 1583

## rbridge-id/{rbridge-number}/router/ospf/rfc1587-compatibility

Configures compatibility with RFC 1587.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <router>  
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">  
      <vrf>vrf1</vrf>  
      <rfc1587-compatibility></rfc1587-compatibility>  
    </ospf>  
  </router>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

**rfc1587-compatibility**

Enables compatibility with RFC 1587



## rbridge-id/{rbridge-number}/router/ospf/summary-address

Configures route summarization for redistributed routes for an Autonomous System Boundary Router (ASBR).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <summary-address>
        <sum-address>10.1.0.0</sum-address>
        <sum-address-mask>255.255.0.0</sum-address-mask>
      </summary-address>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*sum-address*

Specifies the IP address for the summary route representing all the redistributed routes in dotted decimal format

*sum-address-mask*

Specifies the IP mask for the summary route representing all the redistributed routes in dotted decimal format

## rbridge-id/{rbridge-number}/router/ospf/timers/lisa-group-pacing

Configures the interval at which OSPF LSAs are collected into a group and refreshed, check-summed, or aged by the OSPF process.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <timers>
        <lisa-group-pacing>250</lisa-group-pacing>
      </timers>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*lisa-group-pacing*

Specifies the interval at which OSPF LSAs are collected into a group and refreshed, check-summed, or aged by the OSPF process. The values can range from 10 to 1800 seconds. The default value is 240 seconds

## rbridge-id/{rbridge-number}/router/ospf/timers/throttle

Configures the start, hold and maximum wait intervals for throttling SPF calculations for performance.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>default-vrf</vrf>
      <timers>
        <throttle>
          <spf>
            <init-delay>10</init-delay>
            <hold-time>5010</hold-time>
            <max-hold-time>10010</max-hold-time>
          </spf>
        </throttle>
      </timers>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

*init-delay*

Specifies the initial SPF calculation delay. The values can range from 0 to 60000 milliseconds. The default value is 0 milliseconds

*hold-time*

Specifies the minimum hold time between two consecutive SPF calculations. The values can range from 0 to 60000 milliseconds. The default value is 5000 milliseconds

*max-hold-time*

Specifies the maximum wait time between two consecutive SPF calculations. The values can range from 0 to 60000 milliseconds. The default value is 10000 milliseconds

## rbridge-id/{rbridge-number}/router/ospf/vrf/vrf-lite-capability

Disables the down bit (DN bit) that is set when routes are redistributed from multiprotocol BGP (MPBGP) to OSPF.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <ospf xmlns="urn:brocade.com:mgmt:brocade-ospf">
      <vrf>vrf1</vrf>
      <vrf-lite-capability></vrf-lite-capability>
    </ospf>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf*

Specifies the VRF name

**vrf-lite-capability**

Disables the DN bit that is set when routes are redistributed from MPBGP to OSPF

## rbridge-id/{rbridge-number}/router/pim

Enables the Protocol Independent Multicast (PIM) routing protocol.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <router>  
    <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">  
      <pim></pim>  
    </hide-pim-holder>  
  </router>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**pim**

Enables the Protocol Independent Multicast (PIM) routing protocol

## rbridge-id/{rbridge-number}/router/pim/hello-interval

Configures hello message interval.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
      <pim>
        <hello-interval>30</hello-interval>
      </pim>
    </hide-pim-holder>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*hello-interval*

Specifies the hello interval. The value can range from 10 through 3600 seconds. The default interval is 30 seconds

## rbridge-id/{rbridge-number}/router/pim/inactivity-timer

Configures the Protocol Independent Multicast (PIM) forwarding-entry inactivity timer.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
      <pim>
        <inactivity-timer>180</inactivity-timer>
      </pim>
    </hide-pim-holder>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*inactivity-timer*

Specifies the entry inactivity timer interval. The value can range from 60 through 3600 seconds. The default interval is 180 seconds

## rbridge-id/{rbridge-number}/router/pim/max-mcache

Configures the maximum multicast cache size.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
      <pim>
        <max-mcache>2048</max-mcache>
      </pim>
    </hide-pim-holder>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*max-mcache*

Specifies the number of entries in the multicast cache. The value can range from 1 through 2048



## rbridge-id/{rbridge-number}/router/pim/message-interval

Configures the Protocol Independent Multicast (PIM) Join/Prune message interval.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
      <pim>
        <message-interval>60</message-interval>
      </pim>
    </hide-pim-holder>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*message-interval*

Specifies the interval value in seconds. The value can range from 10 through 65535 seconds. The default interval is 60 seconds

## rbridge-id/{rbridge-number}/router/pim/nbr-timeout

Configures the neighbor timeout interval after which a neighbor is considered to be absent.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
      <pim>
        <nbr-timeout>105</nbr-timeout>
      </pim>
    </hide-pim-holder>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*nbr-timeout*

Specifies the interval value in seconds. The value can range from from 35 through 12600 seconds. The default value is 105 seconds

## rbridge-id/{rbridge-number}/router/pim/reset-tracking-bit

For interfaces under protocol-independent multicast (PIM), resets the tracking bit to zero. This enables join suppression, which can reduce the number of PIM-protocol packets in the network.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
      <pim>
        <reset-tracking-bit></reset-tracking-bit>
      </pim>
    </hide-pim-holder>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**reset-tracking-bit**

Resets the tracking bit to zero

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/router/pim/rp-address

Adds or removes a static rendezvous-point (RP) address for a protocol-independent multicast (PIM) domain. You can also specify the name of a prefix list that defines a multicast-group range for which this RP hashes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
      <pim>
        <rp-address>
          <rp-ip-addr>1.1.1.1</rp-ip-addr>
          <prefix-list>prefix1</prefix-list>
        </rp-address>
      </pim>
    </hide-pim-holder>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*rp-ip-addr*

Specifies the IP address of the RP router

*prefix-list*

Specifies the name of a prefix list defined by the ip prefix-list command. The values can range between 1 through 63 characters. Although the first character must be alphabetic, the others can be alphanumeric, underscores (\_), or minus signs (-)

## rbridge-id/{rbridge-number}/router/pim/spt-threshold

Configures the Shortest Path Tree (SPT) threshold.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <router>
    <hide-pim-holder xmlns="urn:brocade.com:mgmt:brocade-pim">
      <pim>
        <spt-threshold>1</spt-threshold>
      </pim>
    </hide-pim-holder>
  </router>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*spt-threshold*

Specifies the Shortest Path Tree (SPT) threshold

**infinity**

Uses only the rendezvous point to send packets, do not switch over to SPT

*num*

Specifies the rate (in kilobytes per second) that must be reached before switching to SPT. The values can range from 1 through 4294967295. The default value is 1

## rbridge-id/{rbridge-number}/secpolicy/defined-policy

Creates the device connection control (SCC) policy and adds the SCC defined policy set members (WWNs).

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <secpolicy xmlns="urn:brocade.com:mgmt:brocade-fc-auth">
    <defined-policy>
      <policies>
        <policy>SCC_POLICY</policy>
        <member-entry>
          <member>10:00:00:05:1e:00:69:00</member>
        </member-entry>
      </policies>
    </defined-policy>
  </secpolicy>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*policy*

Specifies the policy name

*member*

Specifies the device WWN to be added to the SCC defined policy set

## rbridge-id/{rbridge-number}/snmp-server/engineid

Configures a user-defined engine ID for the SNMP agent.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">  
    <engineID>  
      <local>10:20:30:40:50:60:70:80:90:10:30:12</local>  
    </engineID>  
  </snmp-server>  
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- local*  
Specifies the engine ID

## rbridge-id/{rbridge-number}/snmp-server/offline-if

Allows SNMP to display offline interfaces when linecard is powered-off.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>103</rbridge-id>
  <snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
    <offline-if>
      <offline-if-display-enable></offline-if-display-enable>
    </offline-if>
  </snmp-server>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*offline-if-display-enable*

Allows SNMP to display offline interfaces when linecard is powered-off

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |



## rbridge-id/{rbridge-number}/snmp-server/user

Creates or changes the attributes of SNMPv3 users, and allows the SNMPv3 user to be associated with the user-defined group name.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
    <user>
      <username>snmpuser1</username>
      <groupname>group1</groupname>
      <auth>md5</auth>
      <auth-password>password</auth-password>
      <priv>DES</priv>
      <priv-password>password</priv-password>
      <encrypted></encrypted>
    </user>
  </snmp-server>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *username*

Specifies the name of the user that connects to the agent. The name can be between 1 and 16 characters long

#### *groupname*

Specifies the name of the group to which the user is associated

#### *auth*

Initiates an authentication level setting session. Default is noauth

##### **md5**

The HMAC-MD5-96 authentication level

##### **sha**

The HMAC-SHA-96 authentication level

##### **noauth**

Removes authentication

#### *auth-password*

Specifies a string that enables the agent to receive packets from the host. Passwords are plain text and must be added each time for each configuration replay. The password can be between 1 and 32 characters long

#### *priv*

Initiates a privacy authentication level setting session. Default is nopriv

##### **AES128**

Specifies the AES128 privacy protocol

##### **DES**

Specifies the DES privacy protocol

##### **nopriv**

Removes privacy

*priv-password*

Specifies a string (not to exceed 32 characters) that enables the host to encrypt the contents of the message that it sends to the agent

**encrypted**

Used to enter the input for auth/priv passwords as encrypted. The encrypted key should be used only while entering the encrypted auth/priv passwords

## rbridge-id/{rbridge-number}/snmp-server/v3host

Specifies the recipient of the SNMPv3 notification parameter.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
    <v3host>
      <hostip>10.26.3.166</hostip>
      <username>snmpuser1</username>
      <udp-port>162</udp-port>
      <notifytype>traps</notifytype>
      <engineid>10:20:30:40:50:60:70:80:90:10:30:12</engineid>
      <severity-level>None</severity-level>
    </v3host>
  </snmp-server>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *hostip*

Specifies the IP address of the host. IPv4, IPv6, and DNS hosts are supported

#### *username*

Specifies the SNMPv3 user name to be associated with the SNMPv3 host entry

#### *udp-port*

Specifies the UDP port of the host. The value can range from 0 through 65535. The default UDP port number is 162

#### *notifytype*

Specifies the type of notification traps that are sent for the host. Traps and informs are supported. The default notify type is traps

#### *engineid*

Specifies the remote engine ID to receive informs on a remote host

#### *severity-level*

Provides the ability to filter traps based on severity level on both the host and the SNMPv3 host. The supported severity levels are **none**, **debug**, **info**, **warning**, **error**, and **critical**

## rbridge-id/{rbridge-number}/ssh/client/cipher

Sets the SSH client's cipher list for the SSH client.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">  
    <client>  
      <cipher>non-cbc</cipher>  
    </client>  
  </ssh>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*cipher*

Specifies the name of the cipher

## rbridge-id/{rbridge-number}/ssh/client/key-exchange

Specifies the method used for generating the one-time session keys for encryption and authentication with the Secure Shell (SSH) server and Diffie-Hellman group 14.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
    <client>
      <key-exchange>dh-group-14</key-exchange>
    </client>
  </ssh>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*key-exchange*

Specifies the supported key-exchange algorithm

## rbridge-id/{rbridge-number}/ssh/client/mac

Supports MAC configurations for the SSH client.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
    <client>
      <mac>hmac-md5</mac>
    </client>
  </ssh>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*mac*

Specifies the name of the default MAC required. The supported MAC types are **hmac-md5**, **hmac-sha1**, **hmac-sha2-256**, and **hmac-sha2-512**. The default MACs supported in FIPS mode are **hmac-sha1**, **hmac-sha2-256**, and **hmac-sha2-512**

## rbridge-id/{rbridge-number}/ssh/server/cipher

Sets the SSH server's cipher list for the SSH server.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">  
    <server>  
      <cipher>non-cbc</cipher>  
    </server>  
  </ssh>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*cipher*

Specifies the name of the cipher

## rbridge-id/{rbridge-number}/ssh/server/key/dsa

Enables DSA algorithm type.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">  
    <server>  
      <key>  
        <dsa></dsa>  
      </key>  
    </server>  
  </ssh>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**dsa**

Enables DSA algorithm type



## rbridge-id/{rbridge-number}/ssh/server/key/ecdsa

Enables ECDSA algorithm type.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
    <server>
      <key>
        <ecdsa>256</ecdsa>
      </key>
    </server>
  </ssh>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*ecdsa*

Specifies the ECDSA algorithm value

## rbridge-id/{rbridge-number}/ssh/server/key/rsa

Enables RSA algorithm type.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">  
    <server>  
      <key>  
        <rsa>2048</rsa>  
      </key>  
    </server>  
  </ssh>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*rsa*

Specifies the RSA algorithm type

## rbridge-id/{rbridge-number}/ssh/server/key-exchange

Specifies the method used for generating the one-time session keys for encryption and authentication with the Secure Shell (SSH) server and Diffie-Hellman group 14.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
    <server>
      <key-exchange>dh-group-14</key-exchange>
    </server>
  </ssh>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*key-exchange*

Specifies the key-exchange algorithm

## rbridge-id/{rbridge-number}/ssh/server/mac

Supports MAC configurations for the SSH server.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">  
    <server>  
      <mac>hmac-sha1</mac>  
    </server>  
  </ssh>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*mac*

Specifies the name of the default MAC required. The supported MAC types are **hmac-md5**, **hmac-sha1**, **hmac-sha2-256**, and **hmac-sha2-512**. The default MACs supported in FIPS mode are **hmac-sha1**, **hmac-sha2-256**, and **hmac-sha2-512**

## rbridge-id/{rbridge-number}/ssh/server/rekey-interval

Configures the Secure Shell (SSH) server rekey-interval.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">  
    <server>  
      <rekey-interval>1000</rekey-interval>  
    </server>  
  </ssh>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*rekey-interval*

Specifies the value for the rekey interval. The value can range from 900 to 3600 seconds

## rbridge-id/{rbridge-number}/ssh/server/shutdown

Disables SSH service on the switch.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">  
    <server>  
      <shutdown></shutdown>  
    </server>  
  </ssh>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**shutdown**

Disables SSH service on the switch

## rbridge-id/{rbridge-number}/ssh/server/standby

Enables the SSH services on the standby MM.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
    <server>
      <standby>
        <enable></enable>
      </standby>
    </server>
  </ssh>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**enable**

Enables the SSH services on the standby MM

## rbridge-id/{rbridge-number}/ssh/server/use-vrf

Configures VRF

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <ssh xmlns="urn:brocade.com:mgmt:brocade-sec-services">
    <server>
      <ssh-vrf-cont>
        <use-vrf>
          <use-vrf-name>vrf1</use-vrf-name>
        </use-vrf>
      </ssh-vrf-cont>
    </server>
  </ssh>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- use-vrf-name*  
Specifies the VRF name

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |



## rbridge-id/{rbridge-number}/switch-attributes

Sets switch attributes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <switch-attributes>  
    <chassis-name>VDX6740</chassis-name>  
    <host-name>sw0</host-name>  
  </switch-attributes>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*chassis-name*

Specifies the switch chassis name. The string can be between 1 and 30 ASCII characters in length, and the leading character must be a letter

*host-name*

Specifies the switch host name. The string can be between 1 and 30 ASCII characters in length, and the leading character must be a letter

## rbridge-id/{rbridge-number}/system-mode/maintenance

Enables maintenance mode for graceful traffic diversion on ISL ports and disabling all edge ports during debugging or firmware upgrades.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>103</rbridge-id>  
  <system-mode>  
    <maintenance></maintenance>  
  </system-mode>  
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- maintenance**  
Enables maintenance mode

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/system-monitor/linecard/alert

Specifies whether an alert is sent when a threshold value is either above or below a threshold trigger.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>l</rbridge-id>
  <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <LineCard>
      <alert>
        <state>none</state>
        <action>none</action>
      </alert>
    </LineCard>
  </system-monitor>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *action*

Specifies the response type

##### **all**

Specifies that e-mail and RASLog messaging are used

##### **email**

Specifies that an e-mail message is sent

##### **none**

Specifies that no message is sent

##### **raslog**

Specifies RASLog messaging

#### *state*

Specifies the hardware state to be monitored

##### **all**

Specifies that all hardware states are monitored

##### **faulty**

Specifies that hardware is monitored for faults

##### **inserted**

Specifies that the insertion state of hardware is monitored

##### **none**

Specifies that no hardware states are monitored

##### **on**

Specifies that the hardware on/off state is monitored

##### **removed**

Specifies that the removal of hardware is monitored

## rbridge-id/{rbridge-number}/system-monitor/linecard/threshold

Specifies thresholds for line cards.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <LineCard>
      <threshold>
        <marginal-threshold>1</marginal-threshold>
        <down-threshold>2</down-threshold>
      </threshold>
    </LineCard>
  </system-monitor>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*marginal-threshold*

Specifies an integer value that, when exceeded, indicates when hardware is operating marginally

*down-threshold*

Specifies an integer value that, when exceeded, indicates when hardware is down

## rbridge-id/{rbridge-number}/system-monitor/MM/threshold

Specifies thresholds for management modules.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <MM>
      <threshold>
        <marginal-threshold>1</marginal-threshold>
        <down-threshold>0</down-threshold>
      </threshold>
    </MM>
  </system-monitor>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*marginal-threshold*

Specifies an integer value that, when exceeded, indicates when hardware is operating marginally

*down-threshold*

Specifies an integer value that, when exceeded, indicates when hardware is down

## rbridge-id/{rbridge-number}/system-monitor/sfm/threshold

Specifies thresholds for SFM modules.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <SFM>
      <threshold>
        <marginal-threshold>1</marginal-threshold>
        <down-threshold>2</down-threshold>
      </threshold>
    </SFM>
  </system-monitor>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*marginal-threshold*

Specifies an integer value that, when exceeded, indicates when hardware is operating marginally

*down-threshold*

Specifies an integer value that, when exceeded, indicates when hardware is down

## rbridge-id/{rbridge-number}/system-monitor/cid-card/alert

Specifies alerts for the chassis ID card.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <cid-card>
      <alert>
        <state>none</state>
        <action>none</action>
      </alert>
    </cid-card>
  </system-monitor>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *action*

Specifies the response type

##### **all**

Specifies that e-mail and RASLog messaging are used

##### **email**

Specifies that an e-mail message is sent

##### **none**

Specifies that no message is sent

##### **raslog**

Specifies RASLog messaging

#### *state*

Specifies the hardware state to be monitored

##### **all**

Specifies that all hardware states are monitored

##### **faulty**

Specifies that hardware is monitored for faults

##### **inserted**

Specifies that the insertion state of hardware is monitored

##### **none**

Specifies that no hardware states are monitored

##### **on**

Specifies that the hardware on/off state is monitored

##### **removed**

Specifies that the removal of hardware is monitored

## rbridge-id/{rbridge-number}/system-monitor/cid-card/threshold

Specifies thresholds for the chassis ID card.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <cid-card>
      <threshold>
        <marginal-threshold>1</marginal-threshold>
        <down-threshold>2</down-threshold>
      </threshold>
    </cid-card>
  </system-monitor>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*marginal-threshold*

Specifies an integer value that, when exceeded, indicates when hardware is operating marginally

*down-threshold*

Specifies an integer value that, when exceeded, indicates when hardware is down



## rbridge-id/{rbridge-number}/system-monitor/compact-flash/threshold

Specifies thresholds for the compact flash device.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <compact-flash>
      <threshold>
        <marginal-threshold>1</marginal-threshold>
        <down-threshold>0</down-threshold>
      </threshold>
    </compact-flash>
  </system-monitor>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*marginal-threshold*

Specifies an integer value that, when exceeded, indicates when hardware is operating marginally

*down-threshold*

Specifies an integer value that, when exceeded, indicates when hardware is down

## rbridge-id/{rbridge-number}/system-monitor/fan/alert

Specifies alerts for the fans.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">  
    <fan>  
      <alert>  
        <state>removed</state>  
        <action>raslog</action>  
      </alert>  
    </fan>  
  </system-monitor>  
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *action*

Specifies the response type

##### **all**

Specifies that e-mail and RASLog messaging are used

##### **email**

Specifies that an e-mail message is sent

##### **none**

Specifies that no message is sent

##### **raslog**

Specifies RASLog messaging

#### *state*

Specifies the hardware state to be monitored

##### **all**

Specifies that all hardware states are monitored

##### **faulty**

Specifies that hardware is monitored for faults

##### **inserted**

Specifies that the insertion state of hardware is monitored

##### **none**

Specifies that no hardware states are monitored

##### **on**

Specifies that the hardware on/off state is monitored

##### **removed**

Specifies that the removal of hardware is monitored

## rbridge-id/{rbridge-number}/system-monitor/fan/threshold

Specifies thresholds for the fans.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <fan>
      <threshold>
        <marginal-threshold>1</marginal-threshold>
        <down-threshold>2</down-threshold>
      </threshold>
    </fan>
  </system-monitor>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*marginal-threshold*

Specifies an integer value that, when exceeded, indicates when hardware is operating marginally

*down-threshold*

Specifies an integer value that, when exceeded, indicates when hardware is down

## rbridge-id/{rbridge-number}/system-monitor/power/alert

Specifies alerts for the power supplies.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <power>
      <alert>
        <state>removed</state>
        <action>raslog</action>
      </alert>
    </power>
  </system-monitor>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *action*

Specifies the response type

##### **all**

Specifies that e-mail and RASLog messaging are used

##### **email**

Specifies that an e-mail message is sent

##### **none**

Specifies that no message is sent

##### **raslog**

Specifies RASLog messaging

#### *state*

Specifies the hardware state to be monitored

##### **all**

Specifies that all hardware states are monitored

##### **faulty**

Specifies that hardware is monitored for faults

##### **inserted**

Specifies that the insertion state of hardware is monitored

##### **none**

Specifies that no hardware states are monitored

##### **on**

Specifies that the hardware on/off state is monitored

##### **removed**

Specifies that the removal of hardware is monitored

## rbridge-id/{rbridge-number}/system-monitor/power/threshold

Specifies thresholds for the power supplies.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <power>
      <threshold>
        <marginal-threshold>1</marginal-threshold>
        <down-threshold>2</down-threshold>
      </threshold>
    </power>
  </system-monitor>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*marginal-threshold*

Specifies an integer value that, when exceeded, indicates when hardware is operating marginally

*down-threshold*

Specifies an integer value that, when exceeded, indicates when hardware is down

## rbridge-id/{rbridge-number}/system-monitor/sfp/alert

Specifies alerts for the small form-factor pluggable devices.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <sfp>
      <alert>
        <state>none</state>
        <action>none</action>
      </alert>
    </sfp>
  </system-monitor>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *action*

Specifies the response type

##### **all**

Specifies that e-mail and RASLog messaging are used

##### **email**

Specifies that an e-mail message is sent

##### **none**

Specifies that no message is sent

##### **raslog**

Specifies RASLog messaging

#### *state*

Specifies the hardware state to be monitored

##### **all**

Specifies that all hardware states are monitored

##### **faulty**

Specifies that hardware is monitored for faults

##### **inserted**

Specifies that the insertion state of hardware is monitored

##### **none**

Specifies that no hardware states are monitored

##### **on**

Specifies that the hardware on/off state is monitored

##### **removed**

Specifies that the removal of hardware is monitored

## rbridge-id/{rbridge-number}/system-monitor/temp/threshold

Specifies thresholds for the temperature sensors.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <system-monitor xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
    <temp>
      <threshold>
        <marginal-threshold>1</marginal-threshold>
        <down-threshold>2</down-threshold>
      </threshold>
    </temp>
  </system-monitor>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*marginal-threshold*

Specifies an integer value that, when exceeded, indicates when hardware is operating marginally

*down-threshold*

Specifies an integer value that, when exceeded, indicates when hardware is down

## rbridge-id/{rbridge-number}/telnet/server/shutdown

Disables Telnet service on the switch.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <telnet xmlns="urn:brocade.com:mgmt:brocade-sec-services">  
    <server>  
      <shutdown></shutdown>  
    </server>  
  </telnet>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**shutdown**

Disables Telnet service on the switch



## rbridge-id/{rbridge-number}/telnet/server/standby

Enables the Telnet services on the standby MM.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <telnet xmlns="urn:brocade.com:mgmt:brocade-sec-services">  
    <server>  
      <standby>  
        <enable></enable>  
      </standby>  
    </server>  
  </telnet>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**enable**

Enables the Telnet services on the standby MM

## rbridge-id/{rbridge-number}/telnet/server/use-vrf

Configures VRF

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <telnet xmlns="urn:brocade.com:mgmt:brocade-sec-services">
    <server>
      <telnet-vrf-cont>
        <use-vrf>
          <use-vrf-name>vrf1</use-vrf-name>
        </use-vrf>
      </telnet-vrf-cont>
    </server>
  </telnet>
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- use-vrf-name*  
Specifies VRF name

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## rbridge-id/{rbridge-number}/threshold-monitor/cpu

Configures monitoring of CPU usage of the system and alerts the user when configured thresholds are exceeded.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
    <Cpu>
      <poll>121</poll>
      <retry>4</retry>
      <limit>75</limit>
      <actions>none</actions>
    </Cpu>
  </threshold-monitor>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *poll*

Specifies the polling interval in seconds. The value can range from 0 through 3600. The default value is 120

#### *retry*

Specifies the number of polling retries before desired action is taken. The value can range from 1 through 100. The default value is 3

#### *limit*

Specifies the baseline CPU usage limit as a percentage of available resources. The value can range from 0 through 80 percent. The default value is 70 percent

#### *actions*

Specifies the action to be taken when a threshold is exceeded

##### **none**

No action is taken

##### **raslog**

Specifies RASLog messaging

## rbridge-id/{rbridge-number}/threshold-monitor/interface/apply

Applies a custom policy that has been created by the policy operand

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>9</rbridge-id>
  <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
    <interface>
      <apply>custom</apply>
    </interface>
  </threshold-monitor>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*apply*

Specifies the custom policy name

## rbridge-id/{rbridge-number}/threshold-monitor/interface/pause

Pauses monitoring of port statistics on all external gigabit Ethernet interfaces: 1 GbE, 10 GbE, and 40 GbE.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
    <interface>
      <pause></pause>
    </interface>
  </threshold-monitor>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**pause**

Pauses monitoring of port statistics

## rbridge-id/{rbridge-number}/threshold-monitor/interface/policy

Specifies a policy name for monitoring by means of custom settings, rather than default settings. A policy name is required before additional configurations can be made. This operation is not supported from a secondary node.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>7</rbridge-id>
  <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
    <interface>
      <policy>
        <policy_name>custom</policy_name>
        <area>
          <type>Ethernet</type>
          <area_value>CRCAAlignErrors</area_value>
          <alert>
            <above>
              <above-highthresh-action>raslog</above-highthresh-action>
            </above>
          </alert>
        </area>
      </policy>
    </interface>
  </threshold-monitor>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *policy\_name*

Specifies the name of a custom policy configuration that can be saved and applied

#### *type*

Enables gigabit Ethernet interface monitoring

#### *area\_value*

Enables policy configuration

#### **CRCAAlignErrors**

The total number of frames received with either a bad Frame Check Sequence (FCS) or an alignment error

#### **IFG**

The minimum-length interframe gap (IFG) between successive frames is violated. The typical minimum IFG is 12 bytes

#### **MissingTerminationCharacter**

The number of frames that terminate in anything other than the Terminate character

#### **SymbolErrors**

The number of words received as an unknown (invalid) symbol. Large symbol errors indicate a bad device, cable, or hardware

#### **alert**

Specifies whether an alert is sent when a threshold value is either above or below a threshold trigger

#### **above**

Enables setting a value for **highthresh-action**, which specifies the action to be taken when a high threshold is exceeded

**below**

Enables setting a value for **highthresh-action** and **lowthresh-action**, which specifies the action to be taken when a low threshold is exceeded

*above-highthresh-action*

Specifies the action to be taken when a high threshold is exceeded

**all**

Specifies that email and RASLog messaging are used, and that Port Fencing is applied in the case of highthresh-action only

**email**

Specifies that an email message is sent

**fence**

Specifies that Port Fencing is applied, which disables the port until further action is taken This is available only for **highthresh-action**

**none**

Specifies that no alert notification or other action (Port Fencing) is taken

**raslog**

Specifies RASLog messaging

## rbridge-id/{rbridge-number}/threshold-monitor/memory

Configures monitoring of the memory usage of the system and alerts the user when configured thresholds are exceeded.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
    <Memory>
      <poll>121</poll>
      <retry>4</retry>
      <limit>65</limit>
      <high-limit>75</high-limit>
      <low-limit>45</low-limit>
      <actions>none</actions>
    </Memory>
  </threshold-monitor>
</rbridge-id>
```

### Parameters

#### *rbridge-id*

Specifies the RBridge ID

#### *poll*

Specifies the polling interval in seconds. The value can range from 0 through 3600. The default value is 120

#### *retry*

Specifies the number of polling retries before desired action is taken. The value can range from 1 through 100. The default value is 3

#### *limit*

Specifies the baseline memory usage limit as a percentage of available resources. The value can range from 0 through 80 percent. The default value is 60 percent

#### *high-limit*

Specifies an upper limit for memory usage as a percentage of available memory. The value can range from 0 through 80 percent. The default value is 70 percent

#### *low-limit*

Specifies a lower limit for memory usage as percentage of available memory. The default value is 40 percent

#### *actions*

Specifies the action to be taken when a threshold is exceeded

##### **none**

No action is taken. This is the default

##### **raslog**

Specifies RASLog messaging



## rbridge-id/{rbridge-number}/threshold-monitor/security/apply

Applies a custom policy that has been created by the **policy** operand

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>9</rbridge-id>
  <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
    <security>
      <apply>custom</apply>
    </security>
  </threshold-monitor>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*apply*

Specifies the name of a custom policy configuration created by the **policy** operand

## rbridge-id/{rbridge-number}/threshold-monitor/security/pause

Pauses monitoring of security parameters, such as Telnet and login violations.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">  
    <security>  
      <pause></pause>  
    </security>  
  </threshold-monitor>  
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- pause**  
Pauses monitoring

## rbridge-id/{rbridge-number}/threshold-monitor/security/policy

Specifies a policy name for monitoring by means of custom settings, rather than default settings. A policy name is required before additional configurations can be made. This operation is not supported from a secondary node.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>9</rbridge-id>
  <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
    <security>
      <policy>
        <sec_policy_name>custom</sec_policy_name>
        <area>
          <sec_area_value>login-violation</sec_area_value>
          <timebase>minute</timebase>
          <alert>
            <above>
              <sec-above-highthresh-action>raslog</sec-above-highthresh-
action>
            </above>
          </alert>
        </area>
      </policy>
    </security>
  </threshold-monitor>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*sec\_policy\_name*

Specifies the name of a custom policy

*sec\_area\_value*

Enables policy configuration

**login-violation**

Enables monitoring of login violations

**alert**

Specifies whether an alert is sent when a threshold value is either above or below a threshold trigger

**above**

Enables setting a value for **highthresh-action**, which specifies the action to be taken when a high threshold is exceeded

**below**

Enables setting a value for **highthresh-action** and **lowthresh-action**, which specifies the action to be taken when a low threshold is exceeded

**timebase**

Calculates differences between current and previous data taken over a variety of intervals, for comparison against the preset threshold boundary

**day**

Calculates the difference between a current data value and that value a day ago

**hour**

Calculates the difference between a current data value and that value an hour ago

**minute**

Calculates the difference between a current data value and that value a minute ago

**none**

Compares a data value to a threshold boundary level

**telnet-violation**

Enables monitoring of Telnet violations. Operands are as for **login-violation**

*sec-above-highthresh-action*

Specifies the action to be taken when a high threshold is exceeded

**all**

Specifies that email and RASLog messaging are used, and that Port Fencing is applied in the case of highthresh-action only

**email**

Specifies that an email message is sent

**fence**

Specifies that Port Fencing is applied, which disables the port until further action is taken This is available only for **highthresh-action**

**none**

Specifies that no alert notification or other action (Port Fencing) is taken

**raslog**

Specifies RASLog messaging

## rbridge-id/{rbridge-number}/threshold-monitor/sfp/apply

Applies a custom policy that has been created by the **policy** operand.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>7</rbridge-id>
  <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
    <sfp>
      <apply>custom</apply>
    </sfp>
  </threshold-monitor>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*apply*

Specifies the name of a custom policy configuration created by the **policy** operand

## rbridge-id/{rbridge-number}/threshold-monitor/sfp/pause

Pauses monitoring of SFP parameters.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">  
    <sfp>  
      <pause></pause>  
    </sfp>  
  </threshold-monitor>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**pause**

Pauses monitoring

## rbridge-id/{rbridge-number}/threshold-monitor/sfp/policy

Specifies a policy name for monitoring by means of custom settings, rather than default settings. A policy name is required before additional configurations can be made. This operation is not supported from a secondary node.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>9</rbridge-id>
  <threshold-monitor xmlns="urn:brocade.com:mgmt:brocade-threshold-monitor">
    <sfp>
      <policy>
        <policy_name>custom</policy_name>
        <area>
          <type>10GLR</type>
          <area_value>Temperature</area_value>
          <alert>
            <above>
              <above-highthresh-action>raslog</above-highthresh-action>
            </above>
          </alert>
        </area>
      </policy>
    </sfp>
  </threshold-monitor>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*policy\_name*

Specifies the name of a custom policy

*type*

Specifies the SFP type. Possible completions are as follows

**1GLR**

— SFP Type 1GLR

**1GSR**

— SFP Type 1GSR

**10GLR**

— SFP Type 10GLR

**10GSR**

— SFP Type 10GSR

**10GUSR**

— SFP Type 10GUSR

**100GSR**

— SFP Type 100GSR

**QSFP**

— SFP type QSFP

*area\_value*

Specifies one of the following SFP parameters to be monitored. See Defaults, below

**Current**

Measures the current supplied to the SFP transceiver

**RXP**

Measures the incoming laser power, in microWatts ( $\mu$ W)

**TXP**

Measures the outgoing laser power, in ( $\mu$ W).

**Temperature**

Measures the temperature of the SFP, in degrees Celsius

**Voltage**

Measures the voltage supplied to the SFP

*above-highthresh-action*

Specifies the action to be taken when a high threshold is exceeded

**all**

Specifies that email and RASLog messaging are used, and that Port Fencing is applied in the case of highthresh-action only

**email**

Specifies that an email message is sent

**fence**

Specifies that Port Fencing is applied, which disables the port until further action is taken This is available only for **highthresh-action**

**none**

Specifies that no alert notification or other action (Port Fencing) is taken

**raslog**

Specifies RASLog messaging



## rbridge-id/{rbridge-number}/vcs/auto-shut/lag

Enables auto-shut of LAG in case of fabric segmentation.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>l</rbridge-id>
  <vcs xmlns="http://brocade.com/ns/brocade-auto-shut-edge-port">
    <auto-shut>
      <lag></lag>
    </auto-shut>
  </vcs>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

**lag**

Enables auto-shut of LAG

## rbridge-id/{rbridge-number}/vrf

Creates Virtual Routing and Forwarding (VRF) configuration mode.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">  
    <vrf-name>red</vrf-name>  
  </vrf>  
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- vrf-name*  
Specifies the VRF name

## rbridge-id/{rbridge-number}/vrf/address-family/ipv4/unicast

Enables the IPv4 address-family VRF unicast routing options.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
    <vrf-name>Red</vrf-name>
    <address-family>
      <ip>
        <unicast></unicast>
      </ip>
    </address-family>
  </vrf>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf-name*

Specifies the VRF name

**unicast**

Enables the IPv4 address-family VRF unicast routing option

## rbridge-id/{rbridge-number}/vrf/address-family/ipv4/unicast/arp

Enables specification of an IPv4 address for an Address Resolution Protocol (ARP) entry.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
    <vrf-name>red</vrf-name>
    <address-family>
      <ip>
        <unicast>
          <arp-entry xmlns="urn:brocade.com:mgmt:brocade-arp">
            <arp-ip-address>1.1.1.1</arp-ip-address>
            <mac-address-value>0011.1122.2233</mac-address-value>
            <interfacename>interface</interfacename>
            <FortyGigabitEthernet>1/0/50</FortyGigabitEthernet>
          </arp-entry>
        </unicast>
      </ip>
    </address-family>
  </vrf>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf-name*

Specifies the VRF name

*arp-ip-address*

Specifies a valid IP address

*mac-address-value*

Specifies a valid MAC address

*interfacename*

Represents a valid, physical Ethernet subtype for all available Ethernet speeds.

## rbridge-id/{rbridge-number}/vrf/address-family/ipv4/unicast/ip/import/routes

Leaks IPv4 routes from one VRF to the VRF you are configuring, based on match criteria defined in route-map.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
    <vrf-name>red</vrf-name>
    <address-family>
      <ip>
        <unicast>
          <ip xmlns="urn:brocade.com:mgmt:brocade-rtm">
            <import>
              <routes>
                <src-vrf>vrf1</src-vrf>
                <route-map>route1</route-map>
              </routes>
            </import>
          </ip>
        </unicast>
      </ip>
    </address-family>
  </vrf>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf-name*

Specifies the VRF name

*src-vrf*

Specifies the VRF instance from which to leak routes to the VRF you are configuring

*route-map*

Specifies the name of route map to use for route-leaking match criteria. The value can range from 1 through 63 ASCII characters

## rbridge-id/{rbridge-number}/vrf/address-family/ipv4/unicast/ip/route/static/bfd

Configures Bidirectional Forwarding Detection (BFD) session parameters for IP static routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
    <vrf-name>red</vrf-name>
    <address-family>
      <ip>
        <unicast>
          <ip xmlns="urn:brocade.com:mgmt:brocade-rtm">
            <route>
              <static>
                <bfd>
                  <bfd-static-route>
                    <bfd-static-route-dest>1.1.1.1</bfd-static-
route-dest>
                    <bfd-static-route-src>10.10.10.10</bfd-
static-route-src>
                    <bfd-interval-attributes>
                      <interval>55</interval>
                      <min-rx>55</min-rx>
                      <multiplier>4</multiplier>
                    </bfd-interval-attributes>
                  </bfd-static-route>
                </bfd>
              </static>
            </route>
          </ip>
        </unicast>
      </ip>
    </address-family>
  </vrf>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf-name*

Specifies the VRF name

*bfd-static-route-dest*

Specifies the IP address of BFD neighbor

*bfd-static-route-src*

Specifies the source IP address

*interval*

Specifies the interval a device waits to send a control packet to BFD peers. The value can range from 50 to 30000 milliseconds

*min-rx*

Specifies the interval a device waits to receive a control packet from BFD peers. The value can range from 50 to 30000 milliseconds

*multiplier*

Specifies the number of consecutive BFD control packets that must be missed from a BFD peer before BFD determines that the connection to that peer is not operational. The value can range from 3 to 50

## rbridge-id/{rbridge-number}/vrf/address-family/ipv4/unicast/ max-route

Sets the maximum number of routes for VRF.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">  
    <vrf-name>red</vrf-name>  
    <address-family>  
      <ip>  
        <unicast>  
          <max-route>200</max-route>  
        </unicast>  
      </ip>  
    </address-family>  
  </vrf>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf-name*

Specifies the VRF name

*max-route*

Specifies the maximum number of routes



## rbridge-id/{rbridge-number}/vrf/address-family/ipv4/unicast/route-target

Imports the routes to the VRF routing table from the BGP EVPN table when the import route target matches and also exports the routes from VRF table to the BGP EVPN table with the configured export route target.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
    <vrf-name>red</vrf-name>
    <address-family>
      <ip>
        <unicast>
          <route-target>
            <action>export</action>
            <target-community>2001:22</target-community>
            <evpn></evpn>
          </route-target>
        </unicast>
      </ip>
    </address-family>
  </vrf>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf-name*

Specifies the VRF name

*action*

Specifies the action

**both**

Both imports and exports target-VPN community

**export**

Exports target-VPN community

**Import**

Imports target-VPN community

*target-community*

*evpn*

## rbridge-id/{rbridge-number}/vrf/address-family/ipv6/unicast

Enables the IPv6 address-family VRF unicast routing options.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">  
    <vrf-name>red</vrf-name>  
    <address-family>  
      <ipv6>  
        <unicast></unicast>  
      </ipv6>  
    </address-family>  
  </vrf>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf-name*

Specifies the VRF name

**unicast**

Enables the IPv6 address-family VRF unicast routing options

## rbridge-id/{rbridge-number}/vrf/address-family/ipv6/unicast/ipv6/import/routes

Leaks IPv6 routes from one VRF to the VRF you are configuring, based on match criteria defined in route-map.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
    <vrf-name>red</vrf-name>
    <address-family>
      <ipv6>
        <unicast>
          <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm">
            <import>
              <routes>
                <src-vrf>green</src-vrf>
                <route-map>route2</route-map>
              </routes>
            </import>
          </ipv6>
        </unicast>
      </ipv6>
    </address-family>
  </vrf>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf-name*

Specifies the VRF name

*src-vrf*

Specifies the VRF instance from which to leak routes to the VRF you are configuring

*route-map*

Specifies the map name to use for route-leaking match criteria

## rbridge-id/{rbridge-number}/vrf/address-family/ipv6/unicast/ipv6/route/static/bfd

Configures Bidirectional Forwarding Detection (BFD) session parameters for IPv6 static routes.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
    <vrf-name>red</vrf-name>
    <address-family>
      <ipv6>
        <unicast>
          <ipv6 xmlns="urn:brocade.com:mgmt:brocade-ipv6-rtm">
            <route>
              <static>
                <bfd>
                  <bfd-ipv6-static-route>
                    <bfd-ipv6-static-route-dest>2004:384d::
23:24</bfd-ipv6-static-route-dest>
                    <bfd-ipv6-static-route-src>2004:389d::22:21</
bfd-ipv6-static-route-src>
                    <bfd-ipv6-interval-attributes>
                      <interval>60</interval>
                      <min-rx>65</min-rx>
                      <multiplier>4</multiplier>
                    </bfd-ipv6-interval-attributes>
                  </bfd-ipv6-static-route>
                </bfd>
              </static>
            </route>
          </ipv6>
        </unicast>
      </ipv6>
    </address-family>
  </vrf>
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf-name*

Specifies the VRF name

*bfd-ipv6-static-route-dest*

Specifies the IPv6 address of BFD neighbor

*bfd-ipv6-static-route-src*

Specifies the source IPv6 address

*interval*

Specifies the interval a device waits to send a control packet to BFD peers. The value can range from 50 to 30000 milliseconds

*min-rx*

Specifies the interval a device waits to receive a control packet from BFD peers. The value can range from 50 to 30000 milliseconds

*multiplier*

Specifies the number of consecutive BFD control packets that must be missed from a BFD peer before BFD determines that the connection to that peer is not operational. The value can range from from 3 to 50

## rbridge-id/{rbridge-number}/vrf/address-family/ipv6/unicast/ max-route

Sets the maximum number of routes for VRF.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">  
    <vrf-name>red</vrf-name>  
    <address-family>  
      <ipv6>  
        <unicast>  
          <max-route>500</max-route>  
        </unicast>  
      </ipv6>  
    </address-family>  
  </vrf>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf-name*

Specifies the VRF name

*max-route*

Specifies the maximum number of routes

# rbridge-id/{rbridge-number}/vrf/address-family/ipv6/unicast/ route-target

Configures target VPN extended communities.

## Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">
  <rbridge-id>1</rbridge-id>
  <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">
    <vrf-name>red</vrf-name>
    <address-family>
      <ipv6>
        <unicast>
          <route-target>
            <action>export</action>
            <target-community>2002:25</target-community>
            <evpn></evpn>
          </route-target>
        </unicast>
      </ipv6>
    </address-family>
  </vrf>
</rbridge-id>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf-name*

Specifies the VRF name

*action*

Specifies the action

**both**

Imports and exports target-VPN community

**export**

Exports target-VPN community

**import**

Imports target-VPN community

*target-community*

Specifies target VPN extended community

**evpn**

Enables EVPN route target

## rbridge-id/{rbridge-number}/vrf/ip/router-id

Configures router ID.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">  
    <vrf-name>red</vrf-name>  
    <ip>  
      <vrf-router-id>1.1.1.1</vrf-router-id>  
    </ip>  
  </vrf>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf-name*

Specifies the VRF name

*vrf-router-id*

Specifies the IPv4 address that you want as the router ID



## rbridge-id/{rbridge-number}/vrf/mgmt-vrf

Configures routes on a management VRF port.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">  
    <vrf-name>mgmt-vrf</vrf-name>  
  </vrf>  
</rbridge-id>
```

### Parameters

*vrf-name*

Specifies the VRF name

## rbridge-id/{rbridge-number}/vrf/rd

Distinguishes a route for VRF.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">  
    <vrf-name>red</vrf-name>  
    <route-distinguisher>2:1</route-distinguisher>  
  </vrf>  
</rbridge-id>
```

### Parameters

- rbridge-id*  
Specifies the RBridge ID
- vrf-name*  
Specifies the VRF name
- route-distinguisher*  
Specifies the ASN number

## rbridge-id/{rbridge-number}/vrf/vni

Configures Layer 3 VNI for VXLAN routing.

### Usage

```
<rbridge-id xmlns="urn:brocade.com:mgmt:brocade-rbridge">  
  <rbridge-id>1</rbridge-id>  
  <vrf xmlns="urn:brocade.com:mgmt:brocade-vrf">  
    <vrf-name>red</vrf-name>  
    <vni>500</vni>  
  </vrf>  
</rbridge-id>
```

### Parameters

*rbridge-id*

Specifies the RBridge ID

*vrf-name*

Specifies the VRF name

*vni*

Specifies Layer 3 VNI number. The value can range from 1 through 16777215

## reserved-vlan

Sets the range of VLANs for internal purposes.

### Usage

```
<reserved-vlan xmlns="urn:brocade.com:mgmt:brocade-interface">  
  <reserved-vlan-start>1550</reserved-vlan-start>  
  <reserved-vlan-end>1650</reserved-vlan-end>  
</reserved-vlan>
```

### Parameters

*reserved-vlan-start*

Specifies the start of range for reserved VLANs. The value can range from 1 through 4090

*reserved-vlan-end*

Specifies the end of range for reserved VLANs. The value can range from 1 through 4090

# rmon/alarm

Configures Remote Monitoring Protocol (RMON) alarm.

## Usage

```
<rmon xmlns="urn:brocade.com:mgmt:brocade-rmon">
  <alarm-entry>
    <alarm-index>5</alarm-index>
    <snmp-oid>1.3.6.1.2.1.16.1.1.1.5.65535</snmp-oid>
    <alarm-interval>30</alarm-interval>
    <alarm-sample>absolute</alarm-sample>
    <alarm-rising-threshold>195</alarm-rising-threshold>
    <alarm-rising-event-index>25</alarm-rising-event-index>
    <alarm-falling-threshold>95</alarm-falling-threshold>
    <alarm-falling-event-index>27</alarm-falling-event-index>
    <alarm-owner>john_smith</alarm-owner>
  </alarm-entry>
</rmon>
```

## Parameters

### *alarm-index*

Specifies the alarm index. The value can range from 1 through 65535

### *snmp-oid*

Specifies sampling object SNMP OID

### *alarm-interval*

Specifies alarm interval. The interval can range from 1 through 2147483648 seconds

### *alarm-sample*

Specifies alarm sample type

#### **absolute**

Sample type absolute

#### **delta**

Sample type delta

### *alarm-rising-threshold*

Specifies alarm rising threshold value. The value can range from 0 through 4294967295

### *alarm-rising-event-index*

Specifies event index for rising threshold. The value can range from 1 through 65535

### *alarm-falling-threshold*

Specifies alarm falling threshold value. The value can range from 0 through 4294967295

### *alarm-falling-event-index*

Specifies event index for falling threshold. The value can range from 1 through 65535

### *alarm-owner*

Specifies the owner identity

## rmon/event

Configures Remote Monitoring Protocol (RMON) event.

### Usage

```
<rmon xmlns="urn:brocade.com:mgmt:brocade-rmon">
  <event-entry>
    <event-index>23</event-index>
    <event-description>event1</event-description>
    <log></log>
    <event-community>default</event-community>
    <event-owner>owner1</event-owner>
  </event-entry>
</rmon>
```

### Parameters

*event-index*

Specifies event index. The value can range from 1 through 65535

*event-description*

Specifies event description

**log**

Logs the event

*event-community*

Sends traps for the event

*event-owner*

Specifies owner name

# role

Configures name of the role.

## Usage

```
<role xmlns="urn:brocade.com:mgmt:brocade-aaa">  
  <name>  
    <name>admin</name>  
    <desc>Administrator</desc>  
  </name>  
</role>
```

## Parameters

*name*

Specifies the name of the role

*desc*

Specifies the description of the role

## router/fabric-virtual-gateway

Configures router Fabric-Virtual-Gateway.

### Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">  
  <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway"></  
fabric-virtual-gateway>  
</router>
```

### Parameters

**fabric-virtual-gateway**

Enables Fabric-Virtual-Gateway



# router/fabric-virtual-gateway/address-family/ipv4

Enables IPv4 anycast gateway.

## Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">
  <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
    <address-family>
      <ipv4>
        <enable_global></enable_global>
      </ipv4>
    </address-family>
  </fabric-virtual-gateway>
</router>
```

## Parameters

*enable\_global*

Enables IPv4 anycast gateway

## router/fabric-virtual-gateway/address-family/ipv4/accept-unicast-arp-request

Enables accept unicast ARP request for IPv4 anycast gateway.

### Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">
  <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
    <address-family>
      <ipv4>
        <accept-unicast-arp-request></accept-unicast-arp-request>
      </ipv4>
    </address-family>
  </fabric-virtual-gateway>
</router>
```

### Parameters

#### **accept-unicast-arp-request**

Enables accept unicast ARP request for IPv4 anycast gateway

## router/fabric-virtual-gateway/address-family/ipv4/enable

Enables IPv4 anycast gateway.

### Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">
  <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
    <address-family>
      <ipv4>
        <enable_global></enable_global>
      </ipv4>
    </address-family>
  </fabric-virtual-gateway>
</router>
```

### Parameters

*enable\_global*

Enables IPv4 anycast gateway

## router/fabric-virtual-gateway/address-family/ipv4/gateway-mac-address

Configures gateway MAC address for ARP requests.

### Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">
  <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
    <address-family>
      <ipv4>
        <gateway-mac-address>0011.1122.2233</gateway-mac-address>
      </ipv4>
    </address-family>
  </fabric-virtual-gateway>
</router>
```

### Parameters

*gateway-mac-address*

Specifies MAC address in HHHH.HHHH.HHHH format

## router/fabric-virtual-gateway/address-family/ipv4/gratuitous-arp

Configures gratuitous ARP timer.

### Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">
  <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
    <address-family>
      <ipv4>
        <gratuitous-arp>
          <timer>60</timer>
        </gratuitous-arp>
      </ipv4>
    </address-family>
  </fabric-virtual-gateway>
</router>
```

### Parameters

*timer*

Specifies gratuitous ARP timer. The value can range from 0 through 360 seconds

## router/fabric-virtual-gateway/address-family/ipv6

Enables IPv6 anycast gateway.

### Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">  
  <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">  
    <address-family>  
      <ipv6>  
        <enable_global></enable_global>  
      </ipv6>  
    </address-family>  
  </fabric-virtual-gateway>  
</router>
```

### Parameters

*enable\_global*

Enables IPv6 anycast gateway

## router/fabric-virtual-gateway/address-family/ipv6/enable

Enables IPv6 anycast gateway.

### Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">
  <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
    <address-family>
      <ipv6>
        <enable_global></enable_global>
      </ipv6>
    </address-family>
  </fabric-virtual-gateway>
</router>
```

### Parameters

*enable\_global*

Enables IPv6 anycast gateway

## router/fabric-virtual-gateway/address-family/ipv6/gateway-mac-address

Configures gateway MAC address for ARP requests.

### Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">
  <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
    <address-family>
      <ipv6>
        <gateway-mac-address>02E2.5E00.0012</gateway-mac-address>
      </ipv6>
    </address-family>
  </fabric-virtual-gateway>
</router>
```

### Parameters

*gateway-mac-address*

Specifies MAC address if HHHH.HHHH.HHHH format



## router/fabric-virtual-gateway/address-family/ipv6/gratuitous-arp

Configures gratuitous ARP timer requests.

### Usage

```
<router xmlns="urn:brocade.com:mgmt:brocade-common-def">
  <fabric-virtual-gateway xmlns="urn:brocade.com:mgmt:brocade-anycast-gateway">
    <address-family>
      <ipv6>
        <gratuitous-arp>
          <timer>40</timer>
        </gratuitous-arp>
      </ipv6>
    </address-family>
  </fabric-virtual-gateway>
</router>
```

### Parameters

*timer*

Specifies gratuitous ARP timer. The value can range from 0 through 360 seconds

# rule

Configures rules.

## Usage

```
<rule xmlns="urn:brocade.com:mgmt:brocade-aaa">  
  <index>10</index>  
  <action>accept</action>  
  <operation>read-only</operation>  
  <role>role1</role>  
  <command>  
    <enumList>mac</enumList>  
  </command>  
</rule>
```

## Parameters

*index*

Specifies index of the role. The value can range from 1 through 512

*action*

Specifies command action. Default action is accept

**accept**

**reject**

*operation*

Specifies command operation. The default operation is read-write

**read-only**

**read-write**

*role*

Specifies one of the existing roles

*enumList*

Specifies list of RBAC commands

## service/password-encryption

Provides service to encrypt all clear text passwords.

### Usage

```
<service xmlns="urn:brocade.com:mgmt:brocade-aaa">  
  <password-encryption></password-encryption>  
</service>
```

### Parameters

**password-encryption**

Encrypts all clear text passwords

# sflow/collector

Configures sFlow collector.

## Usage

```
<sflow xmlns="urn:brocade.com:mgmt:brocade-sflow">  
  <collector>  
    <collector-ip-address>1.1.1.1</collector-ip-address>  
    <collector-port-number>50</collector-port-number>  
    <use-vrf>mgmt-vrf</use-vrf>  
  </collector>  
</sflow>
```

## Parameters

*collector-ip-address*

Specifies the IP address of the sFlow collector

*collector-port-number*

Specifies the port number used by the sFlow collector. The value can range from 1 through 65535

*use-vrf*

Specifies the VRF to use for sending data to the collector

## History

| Release version | History  |
|-----------------|--|
| 7.0.0           | This Netconf call was modified to include the parameter <i>use-vrf</i> . |

# sflow/enable

Enables sFlow globally.

## Usage

```
<sflow xmlns="urn:brocade.com:mgmt:brocade-sflow">  
  <enable></enable>  
</sflow>
```

## Parameters

### **enable**

Enable sFlow globally

## sflow/polling-interval

Configures interface counter polling interval.

### Usage

```
<sflow xmlns="urn:brocade.com:mgmt:brocade-sflow">  
  <polling-interval>25</polling-interval>  
</sflow>
```

### Parameters

*polling-interval*

Specifies polling interval value. The value can range from 1 through 65535. The default value is 20

## sflow/sample-rate

Configures interface sampling rate.

### Usage

```
<sflow xmlns="urn:brocade.com:mgmt:brocade-sflow">  
  <sample-rate>32768</sample-rate>  
</sflow>
```

### Parameters

*sample-rate*

Specifies sampling rate value. The value can range from 2 through 16777215. The default value is 32768

## sflow/source-ip

Configures source IP address to use.

### Usage

```
<sflow xmlns="urn:brocade.com:mgmt:brocade-sflow">  
  <source-ip>chassis-ip</source-ip>  
</sflow>
```

### Parameters

*source-ip*

Specifies the source IP address to use

**chassis-ip**

Uses chassis IP as source address

**mm-ip**

Uses local MM IP as source address



# sflow-profile

Configures sflow profile sampling rate.

## Usage

```
<sflow-profile xmlns="urn:brocade.com:mgmt:brocade-sflow">  
  <profile-name>sflow1</profile-name>  
  <profile-sampling-rate>4</profile-sampling-rate>  
</sflow-profile>
```

## Parameters

*profile-name*

Specifies Sflow profile name

*profile-sampling-rate*

Specifies Sflow sampling rate. The value can range from 2 through 8388608

## snmp-server/community

Sets the community string and associates it with the user-defined group name to restrict the access of MIB for SNMPv1 and SNMPv2 requests.

### Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
  <community>
    <community>private</community>
    <groupname>group1</groupname>
    <ipv4-acl>acl115</ipv4-acl>
    <ipv6-acl>acl20</ipv6-acl>
  </community>
</snmp-server>
```

### Parameters

*community*

Specifies the community string

*groupname*

Specifies the group name associated with the community name

*ipv4-acl*

Specifies the IPv4 access-list name

*ipv6-acl*

Specifies the IPv6 access-list name

# snmp-server/contact

Configures contact information for the system.

## Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
  <agtconfig>
    <contact>Support</contact>
    <location>End User Premise.</location>
    <sys-descr>Brocade VDX Switch.</sys-descr>
  </agtconfig>
</snmp-server>
```

## Parameters

### *contact*

Specifies identification of contact for the system

### *location*

Specifies location of the system

### *sys-descr*

Specifies system description

## snmp-server/context

Maps the context name in an SNMPv3 packet's protocol data unit (PDU) to the name of a VPN routing and forwarding (VRF) instance.

### Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">  
  <context>  
    <context-name>cont1</context-name>  
    <vrf-name>red</vrf-name>  
  </context>  
</snmp-server>
```

### Parameters

*context-name*

Specifies the context name

*vrf-name*

Specifies the VRF name

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

# snmp-server/enable

Enables or disables traps.

## Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">  
  <enable>  
    <trap>  
      <trap-flag></trap-flag>  
    </trap>  
  </enable>  
</snmp-server>
```

## Parameters

*trap-flag*  
Enables traps

## snmp-server/group

Defines a user security model group.

### Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
  <group>
    <group-name>group1</group-name>
    <group-version>v1</group-version>
    <group-auth-mode>noauth</group-auth-mode>
    <read>readme</read>
    <write>writeme</write>
    <notify>notifyme</notify>
  </group>
</snmp-server>
```

### Parameters

*group-name*

Specifies the name of the group

*group-version*

Specifies group version

**v1**

v1 group using the v1 security model

**v2c**

v2c group using the v2c security model

**v3**

v3 group using the v3 security model

*group-auth-mode*

Specifies the authorization mode

*read*

Specifies a read view for the group

*write*

Specifies the write view for the group

*notify*

Specifies notify view name

# snmp-server/host

Configures the SNMP trap server host attributes.

## Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
  <host>
    <ip>1.1.1.1</ip>
    <community>comm1</community>
    <version>1</version>
    <udp-port>160</udp-port>
    <severity-level>Info</severity-level>
    <use-vrf>mgmt-vrf</use-vrf>
    <source-interface>
      <ve>1</ve>
    </source-interface>
  </host>
</snmp-server>
```

## Parameters

*ip*

Specifies host IP address

*community*

Specifies the community string associated with the host entry

*version*

Selects version 1 or 2c traps to be sent to the specified trap host

*udp-port*

Specifies the UDP port where SNMP traps will be received. The valid port IDs range from 0 through 65535. The default port is 162

*severity-level*

Provides the ability to filter traps based on severity level on both the host and the SNMPv3 host. Only RASLog (swEvent) traps can be filtered based on severity level. The configured severity level marks the reporting threshold. All messages with the configured severity or higher are displayed.

*use-vrf*

Specifies a VRF through which to communicate with the SNMP host

**source-interface**

Specifies the interface IP address to be used as a source address for traps

**ve**

Specifies the VE interface number to be used

**loopback**

Specifies the Loopback interface number to be used

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## snmp-server/location

Configures location of the system.

### Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">  
  <agtconfig>  
    <location>building</location>  
  </agtconfig>  
</snmp-server>
```

### Parameters

*location*

Specifies system location



# snmp-server/mib/community-map

Maps an SNMP community string to an SNMP context.

## Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
  <mib>
    <community-map>
      <community>public</community>
      <context>ctxtA</context>
    </community-map>
  </mib>
</snmp-server>
```

## Parameters

*community*

Specifies an SNMP community name

*context*

Specifies an SNMP context

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## snmp-server/sys-descr

Configures description of the system.

### Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">  
  <agtconfig>  
    <sys-descr>Brocade VDX Switch.</sys-descr>  
  </agtconfig>  
</snmp-server>
```

### Parameters

*sys-descr*

Specifies system description

# snmp-server/user

Configures SNMP user.

## Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
  <user>
    <username>user1</username>
    <groupname>group1</groupname>
    <ipv4-acl>acl1</ipv4-acl>
    <ipv6-acl>acl12</ipv6-acl>
    <auth>noauth</auth>
    <auth-password></auth-password>
    <priv>nopriv</priv>
    <priv-password></priv-password>
  </user>
</snmp-server>
```

## Parameters

### *username*

Specifies username associated with V3 notification type

### *groupname*

Specifies groupname associated with username

### *ipv4-acl*

Specifies IPv4 access list name

### *ipv6-acl*

Specifies IPv6 access list name

### *auth*

Specifies authorization protocol for username

#### **md5**

HMAC-MD5-96 is an authentication protocol uses md5 message digest algorithm for digest computation

#### **noauth**

Removes authentication

#### **sha**

HMAC-SHA-96 is an authentication protocol uses secure hash algorithm sha for digest computation

### *auth-password*

Specifies authorization password associated with the username

### *priv*

Specifies privacy protocol for username

### *priv-password*

Specifies privacy password associated with username

# snmp-server/v3host

Configures SNMP server V3host parameters.

## Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
  <v3host>
    <hostip>20.20.1.1</hostip>
    <username>user1</username>
    <udp-port>158</udp-port>
    <notifytype>informs</notifytype>
    <engineid>00:00:00:00:00:00</engineid>
    <severity-level>Info</severity-level>
    <use-vrf>mgmt-vrf</use-vrf>
    <source-interface>
      <ve>1</ve>
    </source-interface>
  </v3host>
</snmp-server>
```

## Parameters

### *hostip*

Specifies the IP address of the host. IPv4, IPv6, and DNS hosts are supported

### *username*

Specifies the SNMPv3 user name to be associated with the SNMPv3 host entry

### *udp-port*

Specifies the UDP port of the host. The default UDP port number is 162

### *notifytype*

Specifies the type of notification traps that are sent for the host. Traps and informs are supported. The default notify type is traps

### *engineid*

Sets the remote engine ID to receive informs on a remote host

### *severity-level*

Provides the ability to filter traps based on severity level on both the host and the SNMPv3 host. Only RASLog (swEvent) traps can be filtered based on severity level. The configured severity level marks the reporting threshold. All messages with the configured severity or higher are displayed. If the severity level of None is specified, all traps are filtered and no RASLog traps are received. The default severity level is none

### *use-vrf*

Sets the SNMP to use the specified VRF to communicate with the host. This parameter is optional

### **source-interface**

Specifies the interface IP address to be used as a source address for traps

#### *ve*

Specifies the VE interface number to be used

#### *loopback*

Specifies the Loopback interface number to be used

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

## snmp-server/view

Defines an SNMPv2 MIB view.

### Usage

```
<snmp-server xmlns="urn:brocade.com:mgmt:brocade-snmp">
  <view>
    <viewname>all</viewname>
    <mibtree>1</mibtree>
    <mibtree-access>included</mibtree-access>
  </view>
</snmp-server>
```

### Parameters

*viewname*

Specifies view name

*mibtree*

Specifies MIB subtree

*mibtree-access*

Specifies MIB tree access

**excluded**

MIB subtree is excluded in the view

**included**

MIB subtree is included in the view

# support/autoupload

Enables autoupload operation.

## Usage

```
<support xmlns="urn:brocade.com:mgmt:brocade-ras">  
  <autoupload>  
    <enable></enable>  
  </autoupload>  
</support>
```

## Parameters

### **enable**

Enables autoupload operation

## support/autoupload-param

Configures autoupload parameters.

### Usage

```
<support xmlns="urn:brocade.com:mgmt:brocade-ras">
  <autoupload-param>
    <hostip>127.0.0.1</hostip>
    <username>user1</username>
    <directory>c:</directory>
    <protocol>scp</protocol>
    <password>G7g06iCnkZtPff3iBjI4Yg==</password>
  </autoupload-param>
</support>
```

### Parameters

*hostip*

Specifies the IPv4 or IPv6 address of the remote host

*username*

Specifies the user name to access the remote host

*directory*

Specifies the file path

*protocol*

Specifies the protocol used to access the remote server

**scp**

**sftp**

**ftp**

*password*

Specifies the password to access the remote host



## support/ffdc

Enables FFDC file generation.

### Usage

```
<support xmlns="urn:brocade.com:mgmt:brocade-ras">  
  <ffdc></ffdc>  
</support>
```

### Parameters

**ffdc**

Enables FFDC file generation

## support/support-param

Configures copy support parameters.

### Usage

```
<support xmlns="urn:brocade.com:mgmt:brocade-ras">
  <support-param>
    <hostip>1.1.1.1</hostip>
    <username>user</username>
    <directory>c:</directory>
    <protocol>ftp</protocol>
    <password>G7g06iCnkZtPff3iBjI4Yg==</password>
  </support-param>
</support>
```

### Parameters

*hostip*

Specifies IP address of the remote host

*username*

Specifies the user name to access the remote host

*directory*

Specifies the path to the directory

*protocol*

Specifies the protocol used to access the remote server

**ftp**

**scp**

**sftp**

*password*

Specifies the password to access the remote host

# switch-attributes

Configures switch attributes.

## Usage

```
<system xmlns="urn:brocade.com:mgmt:brocade-ras">
  <switch-attributes>
    <rbridge-id>
      <rbridge-id>1</rbridge-id>
      <chassis-name>VDX6740</chassis-name>
      <host-name>sw1</host-name>
    </rbridge-id>
  </switch-attributes>
</system>
```

## Parameters

*rbridge-id*

Specifies the RBridge ID

*chassis-name*

Specifies the chassis name.

*host-name*

Specifies the host name

## system-monitor-mail/fru (email)

Configures e-mail address for FRU alerts.

### Usage

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
  <fru>
    <email-list>
      <email>abc@brocade.com</email>
    </email-list>
  </fru>
</system-monitor-mail>
```

### Parameters

*email*

Specifies e-mail address for FRU alerts

# system-monitor-mail/fru/enable

Enables FRU e-mail alerts.

## Usage

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor">  
  <fru>  
    <enable></enable>  
  </fru>  
</system-monitor-mail>
```

## Parameters

### **enable**

Enables FRU e-mail alerts

## system-monitor-mail/interface (email)

Configures e-mail address for interface alerts.

### Usage

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
  <interface>
    <email-list>
      <email>abc@brocade.com</email>
    </email-list>
  </interface>
</system-monitor-mail>
```

### Parameters

*email*

Specifies e-mail address for interface alerts

# system-monitor-mail/interface/enable

Enables interface e-mail alerts.

## Usage

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor">  
  <interface>  
    <enable></enable>  
  </interface>  
</system-monitor-mail>
```

## Parameters

### **enable**

Enables interface e-mail alerts

## system-monitor-mail/relay

Configures relay IP mail settings.

### Usage

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor">  
  <relay>  
    <host-ip>1.1.1.1</host-ip>  
    <domain-name>domain1</domain-name>  
  </relay>  
</system-monitor-mail>
```

### Parameters

*host-ip*

Specifies host IP address

*domain-name*

Specifies domain server name



## system-monitor-mail/security (email)

Configures e-mail address for security alerts.

### Usage

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
  <security>
    <email-list>
      <email>abc@brocade.com</email>
    </email-list>
  </security>
</system-monitor-mail>
```

### Parameters

*email*

Specifies e-mail address for security alerts

## system-monitor-mail/security/enable

Enables security e-mail alerts.

### Usage

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor">  
  <security>  
    <enable></enable>  
  </security>  
</system-monitor-mail>
```

### Parameters

**enable**

Enables security e-mail alerts

## system-monitor-mail/sfp (email)

Configures e-mail address for SFP alerts.

### Usage

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor">
  <sfp>
    <email-list>
      <email>abc@brocade.com</email>
    </email-list>
  </sfp>
</system-monitor-mail>
```

### Parameters

*email*

Specifies e-mail address for SFP alerts

## system-monitor-mail/sfp/enable

Enables sfp e-mail alerts.

### Usage

```
<system-monitor-mail xmlns="urn:brocade.com:mgmt:brocade-system-monitor">  
  <sfp>  
    <enable></enable>  
  </sfp>  
</system-monitor-mail>
```

### Parameters

**enable**

Enables sfp e-mail alerts

# tacacs-server/host

Configures a Terminal Access Controller Access-Control System plus (TACACS+) server.

## Usage

```
<tacacs-server xmlns="urn:brocade.com:mgmt:brocade-aaa">
  <host>
    <hostname>12.12.12.12</hostname>
    <use-vrf>mgmt-vrf</use-vrf>
    <port>50</port>
    <protocol>chap</protocol>
    <key>sharedsecret</key>
    <encryption-level>0</encryption-level>
    <retries>6</retries>
    <timeout>10</timeout>
  </host>
</tacacs-server>
```

## Parameters

### *hostname*

Specifies the IP address or domain name of the TACACS+ server. IPv4 and IPv6 addresses are supported

### *use-vrf*

Specifies the VRF name

### *port*

Specifies the authentication port. Valid values range from 0 through 65535. The default is 49

### *protocol*

Specifies the authentication protocol. Options include CHAP and PAP. The default is CHAP

### *key*

Specifies the text string that is used as the shared secret between the switch and the TACACS+ server to make the message exchange secure. The key must be between 8 and 40 characters in length. The default key is **sharedsecret**

### *encryption-level*

Specifies the level of encryption of the key

**0**

Specifies the text in clear text format

**7**

Specifies the text in encrypted format

### *retries*

Specifies the number of attempts allowed to connect to a TACACS+ server. The number of retries can range from 0 through 100. The default number of retries is 5

### *timeout*

Specifies the time to wait for the TACACS+ server to respond. The wait time can range from 1 through 60 seconds. The default wait time is 5 seconds

## History

| Release version | History  |
|-----------------|--|
| 7.0.0           | This Netconf call was modified to include the parameter <i>use-vrf</i> |

## tacacs-server/source-ip

Configures the source IP to be used for TACACS+.

### Usage

```
<tacacs-server xmlns="urn:brocade.com:mgmt:brocade-aaa">  
  <tacacs-source-ip>chassis-ip</tacacs-source-ip>  
</tacacs-server>
```

### Parameters

#### *tacacs-source-ip*

Specifies the source IP to be used for TACACS+. Source IP can be used from **chassis-ip**

Uses shassis IP as source address

#### **mm-ip**

Uses local MM IP as source address

# username

Configures local users.

## Usage

```
<username xmlns="urn:brocade.com:mgmt:brocade-aaa">
  <name>admin</name>
  <user-password>BwrsDbB+tABWGWpINOVKoQ==</user-password>
  <encryption-level>7</encryption-level>
  <role>admin</role>
  <desc>Administrator</desc>
  <enable>true</enable>
  <expire>never</expire>
</username>
```

## Parameters

### *name*

Specifies the user name

### *user-password*

Specifies the password of the user

### *encryption-level*

Specifies the level of encryption of the password

**0**

Sets the password as CLEAR-TEXT

**7**

Sets the password as encrypted

### *role*

Specifies the role of the user

### *desc*

Specifies the account description

### *enable*

Enables or disables the user account

**true**

Enables the user account. Default value is set to true

**false**

Disables user account

### *expire*

Specifies the date until when the password will remain valid after being updated. The default value is set to "never"



## vcenter/{vcenter-name}/activate

Activates vCenter discovery.

### Usage

```
<vcenter xmlns="urn:brocade.com:mgmt:brocade-vswitch">  
  <id>myvcenter</id>  
  <activate></activate>  
</vcenter>
```

### Parameters

*id*

Specifies the vCenter name

**activate**

Activates vCenter discovery

## vcenter/{vcenter-name}/discovery

### Usage

```
<vcenter xmlns="urn:brocade.com:mgmt:brocade-vswitch">
  <id>myvcenter</id>
  <discovery>
    <ignore-delete-all-response>
      <always></always>
    </ignore-delete-all-response>
  </discovery>
</vcenter>
```

### Parameters

*id*

Specifies vCenter name

**always**

Always ignore delete-all from vcenter

## vcenter/{vcenter-name}/interval

Configures discovery timer interval.

### Usage

```
<vcenter xmlns="urn:brocade.com:mgmt:brocade-vswitch">  
  <id>myvcenter</id>  
  <interval>25</interval>  
</vcenter>
```

### Parameters

*id*

Specifies vCenter name

*interval*

Specifies discovery timer interval in minutes. The interval can range from 0 through 1440. The default interval is set to 30 minutes

vcenter/{vcenter-name}/url

## vcenter/{vcenter-name}/url

Configures vCenter server URL.

### Usage

```
<vcenter xmlns="urn:brocade.com:mgmt:brocade-vswitch">  
  <id>myvcenter</id>  
  <credentials>  
    <url>https://vcenter_profile</url>  
    <username>user1</username>  
    <password>u96LcuRn5qEJyZxmhdeZGg==</password>  
  </credentials>  
</vcenter>
```

### Parameters

*id*

Specifies vCenter name

*url*

Specifies vCenter server URL

*username*

Specifies the user name

*password*

Specifies the user password

## vcs/virtual/ip

Assigns a single virtual IP address to all switches in a Brocade VCS Fabric.

### Usage

```
<vcs xmlns="urn:brocade.com:mgmt:brocade-vcs">
  <virtual>
    <ip>
      <address>
        <address>10.25.224.100/24</address>
      </address>
    </ip>
  </virtual>
</vcs>
```

### Parameters

*address*

Specifies the IP address in IPv4 format by means of a CIDR prefix (mask)

## vcs/virtual/ipv6

Assigns a single virtual IPv6 address to all switches in a Brocade VCS Fabric.

### Usage

```
<vcs xmlns="urn:brocade.com:mgmt:brocade-vcs">
  <virtual>
    <ipv6>
      <address>
        <ipv6address>2004:384d::23:24/64</ipv6address>
      </address>
    </ipv6>
  </virtual>
</vcs>
```

### Parameters

*ipv6address*

Specifies the IP address in IPv6 format by means of a CIDR prefix (mask)

## vcs/virtual-fabric

Enables VCS virtual fabric configuration.

### Usage

```
<vcs xmlns="urn:brocade.com:mgmt:brocade-vcs">  
  <virtual-fabric>  
    <vfab-enable></vfab-enable>  
  </virtual-fabric>  
</vcs>
```

### Parameters

*vfab-enable*>

Enables VCS virtual fabric configuration

## vlag-commit-mode/disable

Disables the virtual LAG (vLAG) commit mode for dynamic vLAGs. The command also disables the actor and partner SID selection operations.

### Usage

```
<vlag-commit-mode xmlns="urn:brocade.com:mgmt:brocade-lacp">  
  <disable></disable>  
</vlag-commit-mode>
```

### Parameters

**disable**

Disables the virtual LAG (vLAG) commit mode for dynamic vLAGs

### History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |



# vlan/classifier/group

Configures VLAN classification group commands.

## Usage

```
<vlan xmlns="urn:brocade.com:mgmt:brocade-vlan">
  <classifier>
    <group>
      <groupid>2</groupid>
      <oper>add</oper>
      <rule-name>rule</rule-name>
      <ruleid>2</ruleid>
    </group>
  </classifier>
</vlan>
```

## Parameters

### *groupid*

Specifies VLAN classifier group ID. The value can range from 1 through 16

### *oper*

Specifies the operation

#### **add**

Add rule

#### **delete**

Delete rule

### *rule-name*

Specifies VLAN classifier rule name

### *ruleid*

Specifies VLAN classifier rule ID

## vlan/classifier/rule/mac

Configures VLAN classification rule commands.

### Usage

```
<vlan xmlns="urn:brocade.com:mgmt:brocade-vlan">
  <classifier>
    <rule>
      <ruleid>2</ruleid>
      <mac>
        <address>0011.1122.2233</address>
      </mac>
    </rule>
  </classifier>
</vlan>
```

### Parameters

*ruleid*

Specifies the rule ID. The value can range from 1 through 256

*address*

Specifies MAC address in HHHH.HHHH.HHHH format

# vlan/classifier/rule/proto

Configures the protocol to use for the VLAN classifier rule.

## Usage

```
<vlan xmlns="urn:brocade.com:mgmt:brocade-vlan">
  <classifier>
    <rule>
      <ruleid>2</ruleid>
      <proto>
        <proto-val>arp</proto-val>
        <encap>ethv2</encap>
      </proto>
    </rule>
  </classifier>
</vlan>
```

## Parameters

### *ruleid*

Specifies the VLAN identification rule. The values can range from 1 through 2556

### *proto-val*

Specifies the protocol to use for the VLAN classifier rule

#### *hex\_addr*

Specifies an Ethernet hexadecimal value. The value can range from 0x0000 through 0xffff

#### **arp**

Specifies to use the Address Resolution Protocol

#### **ip**

Specifies to use the Internet Protocol

#### **ipv6**

Specifies to use the Internet Protocol version 6

### *encap*

Specifies to encapsulate the Ethernet frames sent for the VLAN classifier rule

#### **ethv2**

Specifies to use the Ethernet version 2 encapsulated frames

#### **nosnapllc**

Specifies to use the Ethernet version 2 non-SNA frames

#### **snapllc**

Specifies to use the Ethernet version 2 with SNA frames

## vlan/dot1q

Configures dot1q parameters.

### Usage

```
<vlan xmlns="urn:brocade.com:mgmt:brocade-vlan">  
  <dot1q>  
    <tag>  
      <native></native>  
    </tag>  
  </dot1q>  
</vlan>
```

### Parameters

#### native

Enables tagged behavior for native-VLANs

# zoning/defined-configuration/alias

Configures list of defined zone aliases.

## Usage

```
<zoning xmlns="urn:brocade.com:mgmt:brocade-zone">
  <defined-configuration>
    <alias>
      <alias-name>aliasexpl</alias-name>
      <member-entry>
        <alias-entry-name>10:00:50:eb:1a:17:3f:f1</alias-entry-name>
      </member-entry>
    </alias>
  </defined-configuration>
</zoning>
```

## Parameters

*alias-name*

Specifies alias name

*alias-entry-name*

Specifies the WWN of the device to be added to the zone alias

## zoning/defined-configuration/cfg

Configures list of defined CFGs.

### Usage

```
<zoning xmlns="urn:brocade.com:mgmt:brocade-zone">
  <defined-configuration>
    <cfg>
      <cfg-name>cfg1</cfg-name>
      <member-zone>
        <zone-name>zone1</zone-name>
      </member-zone>
    </cfg>
  </defined-configuration>
</zoning>
```

### Parameters

*cfg-name*

Specifies CFG name

*zone-name*

Specifies the name of a zone to be added to the configuration or removed from the configuration

# zoning/defined-configuration/zone

Configures list of defined zones.

## Usage

```
<zoning xmlns="urn:brocade.com:mgmt:brocade-zone">
  <defined-configuration>
    <zone>
      <zone-name>zone3</zone-name>
      <member-entry>
        <entry-name>alias3</entry-name>
      </member-entry>
    </zone>
  </defined-configuration>
</zoning>
```

## Parameters

### *zone-name*

Specifies the name of a zone to be added to the configuration or removed from the configuration

### *entry-name*

Specifies the name of the entry

## zoning/enabled-configuration/cfg-action

Configures CFG action entries.

### Usage

```
<zoning xmlns="urn:brocade.com:mgmt:brocade-zone">  
  <enabled-configuration>  
    <cfg-action>cfg-none</cfg-action>  
  </enabled-configuration>  
</zoning>
```

### Parameters

#### *cfg-action*

Specifies defined configuration action - list the supported ones

#### **cfg-clear**

Clears

#### **cfg-disable**

Disables

#### **cfg-none**

None

#### **cfg-save**

Saves

#### **cfg-transaction-abort**

Transaction abort



## zoning/enabled-configuration/cfg-name

Enables CFG name.

### Usage

```
<zoning xmlns="urn:brocade.com:mgmt:brocade-zone">  
  <enabled-configuration>  
    <cfg-name>cfg1</cfg-name>  
  </enabled-configuration>  
</zoning>
```

### Parameters

*cfg-name*

Specifies the name of the zone configuration

## zoning/enabled-configuration/default-zone-access

Configures default zone access.

### Usage

```
<zoning xmlns="urn:brocade.com:mgmt:brocade-zone">  
  <enabled-configuration>  
    <default-zone-access>allaccess</default-zone-access>  
  </enabled-configuration>  
</zoning>
```

### Parameters

#### *default-zone-access*

Specifies the default zone access

##### **allaccess**

Sets the default zone access mode to "All Access". Each device can access all other devices attached to the VCS Fabric

##### **Noaccess**

Sets the default zone access mode to "No Access". No device can access any other device in the VCS Fabric

# bna-config-cmd

Copies configuration data to and from the system.

## Usage

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="212">
  <bna-config-cmd xmlns="urn:brocade.com:mgmt:brocade-ras">
    <src>running-config</src>
    <dest>startup-config</dest>
  </bna-config-cmd>
</rpc>

<rpc-reply message-id="212" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <session-id xmlns="urn:brocade.com:mgmt:brocade-ras">5</session-id>
  <status xmlns="urn:brocade.com:mgmt:brocade-ras">in-progress</status>
</rpc-reply>
```

## Parameters

### *session-id*

This id is used along with `bna-config-cmd-status` API to get the status of this operation (inprogress/complete)

### *status*

Displays the status of this operation (inprogress/complete)

## bna-config-cmd-status

Returns the status of the last configuration command.

### Usage

```
<rpc xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="212">
  <bna-config-cmd-status xmlns="urn:brocade.com:mgmt:brocade-ras">
    <session-id>5</session-id>
  </bna-config-cmd-status>
</rpc>

<rpc-reply message-id="212" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <status xmlns="urn:brocade.com:mgmt:brocade-ras">completed</status>
</rpc-reply>
```

### Parameters

*status*

Shows the status of API bna-config-cmd (completed/inprogress)

# dad-status

Displays the current status of firmware download.

## Usage

```
<dad-status></dad-status>
```

```
<rpc-reply message-id="1" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">  
  <dad-status xmlns="urn:brocade.com:mgmt:brocade-firmware">  
    <dad-status-entries>  
      <index>1</index>  
      <date-and-time-info>Fri Oct 25 21:01:12 GMT 2013</date-and-time-info>  
      <message>DHCP Auto-deployment enabled.</message>  
    </dad-status-entries>  
  </dad-status>  
</rpc-reply>
```

## Parameters

*index*

Displays the Index number

*date-and-time-info*

Displays the Date and time information

*message*

Displays the status message

## fcoe-get-interface

Returns operational state details for an FCoE interface.

### Usage

```
<fcoe-intf-total-interface></fcoe-intf-total-interface>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="74">
  <fcoe-intf-total-interfaces xmlns="urn:brocade.com:mgmt:brocade-fcoe-ext">0</fcoe-
intf-total-interfaces>
</rpc-reply>
```

### Parameters

*fcoe-intf-total-interfaces*

Display the the total number of interfaces whose details are being returned

# fcoe-get-login

Returns the login information about FCoE end nodes that have logged in to the managed device.

## Usage

```
<fcoe-get-login></fcoe-get-login>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="73">
  <fcoe-login-total-logins xmlns="urn:brocade.com:mgmt:brocade-fcoe-ext">0</fcoe-
login-total-logins>
</rpc-reply>
```

## Parameters

*fcoe-login-total-logins*

Displays the total number of devices logged in

# fwdl-status

Returns the status of the firmware download operation.

## Usage

```
<fwdl-status></fwdl-status>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="71">
  <fwdl-state xmlns="urn:brocade.com:mgmt:brocade-firmware">completed</fwdl-state>
  <number-of-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">24</number-of-
entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>1</index>
    <blade-name>SW/0</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:20:20</date-and-time-info>
    <message>Firmware install begins.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>2</index>
    <blade-name>SW/0</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:23:25</date-and-time-info>
    <message>Firmware install ends.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>3</index>
    <blade-name>SW/1</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:23:25</date-and-time-info>
    <message>Firmware install begins.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>4</index>
    <blade-name>SW/1</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:26:27</date-and-time-info>
    <message>Firmware install ends.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>5</index>
    <blade-name>SW/0</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:26:28</date-and-time-info>
    <message>Firmware starts to swap.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>6</index>
    <blade-name>SW/1</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:26:28</date-and-time-info>
    <message>Firmware starts to swap.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>7</index>
    <blade-name>SW/1</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:26:34</date-and-time-info>
    <message>Firmware is swapped.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>8</index>
    <blade-name>SW/0</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:26:36</date-and-time-info>
    <message>Firmware is swapped.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>9</index>
    <blade-name>SW/0</blade-name>
    <message-id>0</message-id>
```



```

    <date-and-time-info>2014-05-29/01:26:36</date-and-time-info>
    <message>Firmware is downloaded successfully.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>10</index>
    <blade-name>SW/1</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:26:37</date-and-time-info>
    <message>Firmware is downloaded successfully.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>11</index>
    <blade-name>SW/1</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:34:17</date-and-time-info>
    <message>The DB/filesystem starts shutting down.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>12</index>
    <blade-name>SW/0</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:34:17</date-and-time-info>
    <message>The DB/filesystem starts shutting down.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>13</index>
    <blade-name>SW/1</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:34:35</date-and-time-info>
    <message>The DB/filesystem has been shut down.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>14</index>
    <blade-name>SW/0</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:34:37</date-and-time-info>
    <message>The DB/filesystem has been shut down.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>15</index>
    <blade-name>SW/1</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:34:38</date-and-time-info>
    <message>The blade begins to reboot.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>16</index>
    <blade-name>SW/0</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:34:38</date-and-time-info>
    <message>The blade begins to reboot.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>17</index>
    <blade-name>SW/1</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:44:23</date-and-time-info>
    <message>The blade is rebooted.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>18</index>
    <blade-name>SW/1</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:44:23</date-and-time-info>
    <message>Firmware commit begins.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>19</index>
    <blade-name>SW/0</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:44:23</date-and-time-info>
    <message>The blade is rebooted.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>20</index>
    <blade-name>SW/0</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:44:23</date-and-time-info>

```

```

    <message>Firmware commit begins.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>21</index>
    <blade-name>SW/0</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:48:42</date-and-time-info>
    <message>Firmware commit ends.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>22</index>
    <blade-name>SW/0</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:48:42</date-and-time-info>
    <message>Firmware is downloaded successfully.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>23</index>
    <blade-name>SW/1</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:48:51</date-and-time-info>
    <message>Firmware commit ends.</message>
  </fwdl-entries>
  <fwdl-entries xmlns="urn:brocade.com:mgmt:brocade-firmware">
    <index>24</index>
    <blade-name>SW/1</blade-name>
    <message-id>0</message-id>
    <date-and-time-info>2014-05-29/01:48:51</date-and-time-info>
    <message>Firmware is downloaded successfully.</message>
  </fwdl-entries>
</rpc-reply>

```

## Parameters

### *fwdl-state*

Specifies the firmware download state

### *number-of-entries*

Specifies the number of status entries

### *index*

Specifies the sequence number for the message

### *blade-name*

Specifies the name of the blade

### *message-id*

Specifies the message identifier

### *date-and-time-info*

Specifies the date and time of the message. The format is YYYY-MM-DD/  
HH:MM:SS.SSSS

### *message*

Displays the textual description of the status

# get-arp

Retrieves the ARP cache information.

## Usage

```
<get-arp xmlns="urn:brocade.com:mgmt:brocade-arp"></get-arp>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
  <arp-entry>
    <ip-address>20.0.0.122</ip-address>
    <mac-address>0005.3379.407a</mac-address>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
    <is-resolved>true</is-resolved>
    <age>03:16:05</age>
    <entry-type>dynamic</entry-type>
  </arp-entry>
</rpc-reply>
```

## Parameters

### *ip-address*

Displays the IP address of the ARP entry

### *mac-address*

Displays the MAC address of the ARP entry

### *interface-type*

Displays the interface type

### *interface-name*

Displays the interface name

### *is-resolved*

Indicates whether the ARP entry is resolved or not

### *age*

Displays the age of the ARP entry

### *entry-type*

Displays the type of the ARP entry

## get-contained-in-ID

Retrieves enclosure related information on embedded platforms.

### Usage

```
<get-contained-in-ID xmlns="urn:brocade.com:mgmt:brocade-entity"></get-contained-in-ID>  
  
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">  
  <contained-in-ID>Bay 7</contained-in-ID>  
</rpc-reply>
```

### Parameters

*contained-in-ID*

Displays present slot ID of switch

# get-flexports

Retrieves the list of flexports

## Usage

```
<get-flexports xmlns="urn:brocade.com:mgmt:brocade-hardware"/>
</get-flexports>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
  <flexport-list xmlns="urn:brocade.com:mgmt:brocade-hardware">
    <port-id>7/0/1</port-id>
    <port-id>7/0/2</port-id>
    <port-id>7/0/3</port-id>
    <port-id>7/0/4</port-id>
    <port-id>7/0/5</port-id>
    <port-id>7/0/7</port-id>
  </flexport-list>
</rpc-reply>
```

## Parameters

*port-id*  
Specifies the Flexport ID

## get-interface-detail

Returns operational details of all the possible interfaces of the managed entity. Use this RPC to discover basic characteristics of all the interfaces in the system. Each sublayer below the internetwork layer of a network interface is considered to be an interface.

### Usage

```
<get-interface-detail></get-interface-detail>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="67">
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
    <interface-type>fortygigabitethernet</interface-type>
    <interface-name>2/0/49</interface-name>
    <port-role>edge</port-role>
    <port-mode>unknown</port-mode>
    <if-name>FortyGigabitEthernet 2/0/49</if-name>
    <if-state>up</if-state>
    <line-protocol-state>down</line-protocol-state>
    <line-protocol-state-info> (link protocol down)</line-protocol-state-info>
    <hardware-type>ethernet</hardware-type>
    <current-hardware-address>50:eb:1a:17:40:28</current-hardware-address>
    <logical-hardware-address>50:eb:1a:17:40:28</logical-hardware-address>
    <ifindex>8791662784</ifindex>
    <mtu>2500</mtu>
    <actual-line-speed>nil</actual-line-speed>
    <configured-line-speed>auto</configured-line-speed>
    <line-duplex-state>full</line-duplex-state>
    <flow-control></flow-control>
    <queuing-strategy>fifo</queuing-strategy>
    <ifHCInOctets>0</ifHCInOctets>
    <ifHCInUcastPkts>0</ifHCInUcastPkts>
    <ifHCInMulticastPkts>0</ifHCInMulticastPkts>
    <ifHCInBroadcastPkts>0</ifHCInBroadcastPkts>
    <ifHCInErrors>0</ifHCInErrors>
    <ifHCOctets>0</ifHCOctets>
    <ifHCOUcastPkts>0</ifHCOUcastPkts>
    <ifHCOMulticastPkts>0</ifHCOMulticastPkts>
    <ifHCOBroadcastPkts>0</ifHCOBroadcastPkts>
    <ifHCOErrors>0</ifHCOErrors>
  </interface>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
    <interface-type>tengigabitethernet</interface-type>
    <interface-name>2/0/1</interface-name>
    <port-role>isl</port-role>
    <port-mode>unknown</port-mode>
    <if-name>TenGigabitEthernet 2/0/1</if-name>
    <if-state>up</if-state>
    <line-protocol-state>up</line-protocol-state>
    <line-protocol-state-info> (connected)</line-protocol-state-info>
    <hardware-type>ethernet</hardware-type>
    <current-hardware-address>50:eb:1a:17:3f:f8</current-hardware-address>
    <logical-hardware-address>50:eb:1a:17:3f:f8</logical-hardware-address>
    <media-type>sfp</media-type>
    <wavelength>1310</wavelength>
    <ifindex>8791269376</ifindex>
    <mtu>9216</mtu>
    <actual-line-speed>10Gbps</actual-line-speed>
    <configured-line-speed>auto</configured-line-speed>
    <line-duplex-state>full</line-duplex-state>
    <flow-control></flow-control>
    <queuing-strategy>fifo</queuing-strategy>
    <ifHCInOctets>303455437</ifHCInOctets>
    <ifHCInUcastPkts>301429</ifHCInUcastPkts>
    <ifHCInMulticastPkts>79743</ifHCInMulticastPkts>
    <ifHCInBroadcastPkts>0</ifHCInBroadcastPkts>
    <ifHCInErrors>0</ifHCInErrors>
    <ifHCOctets>300765428</ifHCOctets>
    <ifHCOUcastPkts>301347</ifHCOUcastPkts>
    <ifHCOMulticastPkts>56906</ifHCOMulticastPkts>
```

```

        <ifHCOutBroadcastPkts>0</ifHCOutBroadcastPkts>
        <ifHCOutErrors>0</ifHCOutErrors>
    </interface>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
        <interface-type>tengigabitethernet</interface-type>
        <interface-name>2/0/38</interface-name>
        <port-role>edge</port-role>
        <port-mode>unknown</port-mode>
        <if-name>TenGigabitEthernet 2/0/38</if-name>
        <if-state>up</if-state>
        <line-protocol-state>down</line-protocol-state>
        <line-protocol-state-info> (link protocol down)</line-protocol-state-info>
        <hardware-type>ethernet</hardware-type>
        <current-hardware-address>50:eb:1a:17:40:1d</current-hardware-address>
        <logical-hardware-address>50:eb:1a:17:40:1d</logical-hardware-address>
        <ifindex>8791572480</ifindex>
        <mtu>2500</mtu>
        <actual-line-speed>nil</actual-line-speed>
        <configured-line-speed>auto</configured-line-speed>
        <line-duplex-state>full</line-duplex-state>
        <flow-control></flow-control>
        <queuing-strategy>fifo</queuing-strategy>
        <ifHCInOctets>0</ifHCInOctets>
        <ifHCInUcastPkts>0</ifHCInUcastPkts>
        <ifHCInMulticastPkts>0</ifHCInMulticastPkts>
        <ifHCInBroadcastPkts>0</ifHCInBroadcastPkts>
        <ifHCInErrors>0</ifHCInErrors>
        <ifHCOutOctets>0</ifHCOutOctets>
        <ifHCOutUcastPkts>0</ifHCOutUcastPkts>
        <ifHCOutMulticastPkts>0</ifHCOutMulticastPkts>
        <ifHCOutBroadcastPkts>0</ifHCOutBroadcastPkts>
        <ifHCOutErrors>0</ifHCOutErrors>
    </interface>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
        <interface-type>l2vlan</interface-type>
        <interface-name>1</interface-name>
        <if-name>Vlan 1</if-name>
        <ifindex>1207959553</ifindex>
        <queuing-strategy>fifo</queuing-strategy>
    </interface>
    <interface xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
        <interface-type>l2vlan</interface-type>
        <interface-name>10</interface-name>
        <if-name>Vlan 10</if-name>
        <current-hardware-address>00:27:f8:fd:00:03</current-hardware-address>
        <logical-hardware-address>00:27:f8:fd:00:03</logical-hardware-address>
        <ifindex>1207959562</ifindex>
        <queuing-strategy>fifo</queuing-strategy>
    </interface>
    <has-more xmlns="urn:brocade.com:mgmt:brocade-interface-ext">false</has-more>
</rpc-reply>

```

## Parameters

### *interface-type*

Specifies the interface type

### *interface-name*

Specifies the interface name

### *port-role*

Displays the current role that the particular interface is playing. This is applicable only for physical interfaces

### *port-mode*

Displays the operational mode of the particular interface. This is applicable only for physical interfaces or port-channel interfaces

### *if-name*

Displays the interface display name as in MIB-II's ifTable. However interface-name and interface-type values of this instance forms fully qualified name for this interface

|                                 |  |
|---------------------------------|--|
| <i>if-state</i>                 | Displays the current operational state of this interface   |
| <i>line-protocol-state</i>      | Displays the 'Line protocol' state of the interface  |
| <i>line-protocol-state-info</i> | Displays the reason for the current line protocol state of the interface   |
| <i>hardware-type</i>            | Displays the hardware type   |
| <i>current-hardware-address</i> | Displays the address of the interface at its protocol sub-layer  |
| <i>logical-hardware-address</i> | Displays the address of the interface at its protocol sub-layer  |
| <i>ifindex</i>                  | Displays a unique value, greater than zero, for each interface   |
| <i>mtu</i>                      | Displays the IP MTU value of the interface   |
| <i>actual-line-speed</i>        | Displays the actual line speed of this interface   |
| <i>configured-line-speed</i>    | Displays the administratively configured line speed of the interface   |
| <i>line-duplex-state</i>        | Displays the 'Line duplex state' of the interface  |
| <i>flow-control</i>             | Displays the 'Flow control' for the interface  |
| <i>queuing-strategy</i>         | Displays the 'Queuing strategy' for the interface  |
| <i>ifHCInOctets</i>             | Displays the total number of octets received on the interface, including framing characters  |
| <i>ifHCInUcastPkts</i>          | Displays the The number of packets, delivered by this sub-layer to a higher (sub-)layer, which were not addressed to a multicast or broadcast address at this sub-layer  |
| <i>ifHCInMulticastPkts</i>      | Displays The number of packets, delivered by this sub-layer to a higher (sub-)layer, which were addressed to a multicast address at the sub-layer. For a MAC layer protocol, this includes both Group and Functional addresses   |
| <i>ifHCInBroadcastPkts</i>      | Displays the The number of packets, delivered by the sub-layer to a higher (sub-)layer, which were addressed to a broadcast address at the sub-layer   |
| <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>ifHCOutOctets</i>            |  |



Displays the total number of octets transmitted out of the interface, including framing characters

*ifHCOUtUcastPkts*

Displays the total number of packets that higher-level protocols requested be transmitted, and which were not addressed to a multicast or broadcast address at the sub-layer, including those that were discarded or not sent

*ifHCOUtMulticastPkts*

Displays the total number of packets that higher-level protocols requested be transmitted, and which were addressed to a multicast address at this sub-layer, including those that were discarded or not sent. For a MAC layer protocol, this includes both Group and Functional addresses

*ifHCOUtBroadcastPkts*

Displays the total number of packets that higher-level protocols requested be transmitted, and which were addressed to a broadcast address at this sub-layer, including those that were discarded or not sent

*ifHCOUtErrors*

For packet-oriented interfaces, the number of outbound packets that could not be transmitted because of errors. For character-oriented or fixed-length interfaces, the number of outbound transmission units that could not be transmitted because of errors

*ip-mtu*

Displays the IP MTU value of this interface

*line-protocol-exception-info*

Displays the 'Exception information' of line protocol

*media-type*

Displays the media type

*wavelength*

Displays the wavelength of pluggable media

*if-description*

Displays the textual string containing information about the interface

*queuing-strategy*

Displays the 'Queuing strategy' for this interface

# get-interface-switchport

Returns switch-port or Layer 2 characteristics of all the interfaces in the managed device.

## Usage

```
<get-interface-switchport></get-interface-switchport>
```

```
<rpc-reply message-id="303" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <switchport xmlns="urn:brocade.com:mgmt:brocade-brocade-interface-ext">
    <interface-name>195/2/1</interface-name>
    <interface-type>fortygigabitethernet</interface-type>
    <mode>access</mode>
    <fcoe-port-enabled>>false</fcoe-port-enabled>
    <ingress-filter-enabled>>true</ingress-filter-enabled>
    <acceptable-frame-type>admit-all</acceptable-frame-type>
    <default-vlan>1</default-vlan>
    <active-vlans>
      <vlanid>1</vlanid>
    </active-vlans>
  </switchport>
</rpc-reply>
```

## Parameters

### *interface-name*

Specifies the interface value

### *interface-type*

Displays the type of the interface

### *mode*

Displays the mode of the port-channel

### *fcoe-port-enabled*

Specifies if FCoE capability is enabled on the interface

### *ingress-filter-enabled*

Indicates if the 'Ingress filtering' is enabled for the interface

### *acceptable-frame-type*

The switch-port ingress Frame admission policy - whether only tagged Frames are allowed or all

### *default-vlan*

Displays 'default vlan' identifier value for this switch-port

### *vlanid*

Displays the list of active VLAN identifiers

# get-ip-interface

Returns brief details of all interfaces, loopback and VE interface details of particular managed entity.

## Usage

```
<get-ip-interface></get-ip-interface>
```

```
<rpc-reply message-id="307" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface">
    <interface-type>fortygigabitethernet</interface-type>
    <interface-name>2/0/49</interface-name>
    <if-name>FortyGigabitEthernet 2/0/49</if-name>
    <if-state>up</if-state>
    <line-protocol-state>down</line-protocol-state>
    <ip-address>
      <ipv4>unassigned</ipv4>
    </ip-address>
  </interface>
</rpc-reply>
```

## Parameters

### *interface-type*

Displays the network interface name in a VCS environment in the format: [rbridge-id]/slot/port

### *interface-name*

Displays the interface value

### *if-name*

The interface display name as in MIB-II's ifTable. However interface-name and interface-type values of this instance forms fully qualified name for this interface

### *if-state*

Displays the current operational state of the interface

### *line-protocol-state*

Displays the 'Line protocol' state of the interface

### *ipv4*

Displays the IP address in dotted decimal/Mask (A.B.C.D/M)

## get-last-config-update-time

Returns the time stamp of the last configuration change done on the managed device.

### Usage

```
<get-last-config-update-time></get-last-config-update-time>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="64">
  <last-config-update-time xmlns="urn:brocade.com:mgmt:brocade-vcs">1401804078</
last-config-update-time>
</rpc-reply>
```

### Parameters

*last-config-update-time*

Displays the time stamp of the last configuration change

# last-config-update-time-for-xpaths

Returns the time stamp of the last configuration change done on the managed device for Xpaths.

## Usage

```
<get-last-config-update-time-for-xpaths></get-last-config-update-time-for-xpaths>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="63">
  <last-config-update-time-for-xpaths xmlns="urn:brocade.com:mgmt:brocade-vcs">
    <xpath-string></xpath-string>
    <last-config-update-time>1401804078</last-config-update-time>
  </last-config-update-time-for-xpaths>
  <last-config-update-time-for-xpaths xmlns="urn:brocade.com:mgmt:brocade-vcs">
    <xpath-string>/cee-map</xpath-string>
    <last-config-update-time>1401793516</last-config-update-time>
  </last-config-update-time-for-xpaths>
</rpc-reply>
```

## Parameters

### *xpath-string*

Displays the xpath string

### *last-config-update-time*

Indicates the time stamp of the last configuration change for xpaths

# get-lldp-neighbor-detail

Returns the details of all the neighbouring interfaces of the managed entity.

## Usage

```
<get-lldp-neighbor-detail></get-lldp-neighbor-detail>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="4">
  <lldp-neighbor-detail xmlns="urn:brocade.com:mgmt:brocade-lldp-ext">
    <local-interface-name>Te 14/1/3</local-interface-name>
    <local-interface-ifindex>203448320</local-interface-ifindex>
    <local-interface-mac>0005.3379.6de0</local-interface-mac>
    <remote-interface-name>port1</remote-interface-name>
    <remote-interface-mac>0005.3348.3043</remote-interface-mac>
    <dead-interval>120</dead-interval>
    <remaining-life>114</remaining-life>
    <remote-chassis-id>0005.3348.3043</remote-chassis-id>
    <lldp-pdu-transmitted>16159</lldp-pdu-transmitted>
    <lldp-pdu-received>15846</lldp-pdu-received>
  </lldp-neighbor-detail>
  <has-more xmlns="urn:brocade.com:mgmt:brocade-lldp-ext">false</has-more>
</rpc-reply>
```

## Parameters

### *local-interface-name*

Indicates the local interface display name

### *local-interface-ifindex*

Indicates the local interface IfIndex

### *local-interface-mac*

Indicates the local interface MAC address

### *remote-interface-name*

Indicates the remote interface display name

### *remote-interface-mac*

Indicates the remote interface MAC address

### *dead-interval*

Indicates the dead interval

### *remaining-life*

Indicates the remaining life period

### *remote-chassis-id*

Indicates the remote chassis ID

### *lldp-pdu-transmitted*

Number of LLDP PDUs transmitted from the interface

### *lldp-pdu-received*

Number of LLDP PDUs received by the interface

## get-mac-acl-for-intf

Returns information about the MAC ACL applied on the specified interfaces.

### Usage

```
<get-mac-acl-for-intf></get-mac-acl-for-intf>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="2407">
  <get-mac-acl-for-intf xmlns="urn:brocade.com:mgmt:brocade-mac-access-list">
    <interface>
      <interface-type>l2vlan</interface-type>
      <interface-name>50</interface-name>
      <ingress-policy>
        <policy-name>test_02</policy-name>
      </ingress-policy>
      <egress-policy>
        <policy-name>test_01</egress-policy>
      </egress-policy>
    </interface>
  </get-mac-acl-for-intf>
</rpc-reply>
```

### Parameters

- interface-type*  
Displays the interface type
- interface-name*  
Displays the interface name
- policy-name*  
Displays the MAC ACL policy name

## get-mac-address-table

Returns the MAC address table for a given MAC address.

### Usage

```
<get-mac-address-table></get-mac-address-table>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="60">
  <mac-address-table xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">
    <vlanid>1</vlanid>
    <mac-address>00:11:11:22:22:33</mac-address>
    <mac-type>static</mac-type>
    <mac-state>remote</mac-state>
    <forwarding-interface>
      <interface-type>tengigabitethernet</interface-type>
      <interface-name>1/0/5</interface-name>
    </forwarding-interface>
  </mac-address-table>
  <has-more xmlns="urn:brocade.com:mgmt:brocade-mac-address-table">false</has-more>
</rpc-reply>
```

### Parameters

*vlanid*

Displays the VLAN ID

*mac-address*

Displays the MAC address

*mac-type*

Displays MAC type

*mac-state*

Displays MAC state

*interface-type*

Displays interface type

*interface-name*

Displays interface name



# get-media-detail

Returns the media properties of all the interfaces of the managed entity.

## Usage

```
<get-media-detail></get-media-detail>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="59">
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
    <interface-type>fortygigabitethernet</interface-type>
    <interface-name>1/0/52</interface-name>
    <qsfp>
      <speed>40Gbps</speed>
      <connector>lc</connector>
      <encoding>ieee-802-3ab</encoding>
      <vendor-name>BROCADE </vendor-name>
      <vendor-oui>00:05:1e</vendor-oui>
      <vendor-pn>57-1000263-01 </vendor-pn>
      <vendor-rev>A </vendor-rev>
      <distance>long-dist</distance>
      <media-form-factor>unknown</media-form-factor>
      <wavelength>26020</wavelength>
      <serial-no>LDF113390001CBS </serial-no>
      <date-code>130928 </date-code>
      <temperature>31</temperature>
      <voltage>3305.7</voltage>
      <current>37.364</current>
      <tx-power>0.0</tx-power>
      <rx-power>2.7</rx-power>
    </qsfp>
  </interface>
  <interface xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
    <interface-type>tengigabitethernet</interface-type>
    <interface-name>1/0/1</interface-name>
    <sfp>
      <speed>10Gbps</speed>
      <connector>lc</connector>
      <encoding>unknown</encoding>
      <vendor-name>BROCADE</vendor-name>
      <vendor-oui>00:05:1e</vendor-oui>
      <vendor-pn>57-0000076-01</vendor-pn>
      <vendor-rev>A</vendor-rev>
      <distance>unknown</distance>
      <media-form-factor>unknown</media-form-factor>
      <wavelength>1310</wavelength>
      <serial-no>ADF2134600071B </serial-no>
      <date-code>131110</date-code>
      <temperature>36</temperature>
      <voltage>3292.0</voltage>
      <current>38.602</current>
      <tx-power>700.5</tx-power>
      <rx-power>741.6</rx-power>
    </sfp>
  </interface>
</rpc-reply>
```

## Parameters

*interface-type*

Displays the interface type

*interface-name*

Displays the interface name

*speed*

*connector*

*encoding*

Displays the type of encoding used to transmit the data on this interface

*vendor-name*

Displays the vendor of the interface

*vendor-oui*

Displays the vendor IEEE company ID

*vendor-pn*

Displays the vendor part number

*vendor-rev*

Displays the vendor revision level

*distance*

Displays SFP distance

*media-form-factor*

Displays the media form factor

*wavelength*

Displays the wavelength of pluggable media

*serial-no*

Displays the serial number

*date-code*

Displays the vendor's manufacturing date code

*temperature*

Displays the module temperature (degrees C)

*voltage*

Indicates the supply voltage (Volts)

*current*

Displays the laser diode drive current (milliAmps)

*tx-power*

Displays the transmitted optical power (microWatts)

*rx-power*

Displays the received optical power (microWatts)

# get-nameserver-detail

Retrieves the detailed information of the devices stored in the name server database.

## Usage

```
<get-nameserver-detail xmlns=""urn:brocade.com:mgmt:brocade-nameserver""></get-
nameserver-detail>

<rpc-reply xmlns=""urn:ietf:params:xml:ns:netconf:base:1.0" message-id=""1">
  <show-nameserver>
    <nameserver-portid>0d0000</nameserver-portid>
    <nameserver-portname>20:00:8C:7C:FF:21:C0:00</nameserver-portname>
    <nameserver-nodename>20:00:8C:7C:FF:21:C0:01</nameserver-nodename>
    <nameserver-cos>3</nameserver-cos>
    <nameserver-scr>0</nameserver-scr>
    <nameserver-fc4s>FCP </nameserver-fc4s>
    <nameserver-portsymb>[7] "13/0/52"</nameserver-portsymb>
    <nameserver-nodesymb>NULL</nameserver-nodesymb>
    <nameserver-fabric-portname>50:02:7F:8C:31:32:30:82</nameserver-fabric-
portname>
    <nameserver-permanent-portname>20:00:8C:7C:FF:21:C0:00</nameserver-permanent-
portname>
    <nameserver-devicetype>Physical Target</nameserver-devicetype>
    <nameserver-porttype>N</nameserver-porttype>
    <nameserver-index>130</nameserver-index>
    <nameserver-sharearea>Yes</nameserver-sharearea>
    <nameserver-redirect>No</nameserver-redirect>
    <nameserver-xlatedomain>No</nameserver-xlatedomain>
    <nameserver-connected-via-ag>No</nameserver-connected-via-ag>
    <nameserver-ag-base-device>No</nameserver-ag-base-device>
    <nameserver-real>No</nameserver-real>
    <nameserver-cascaded>No</nameserver-cascaded>
  </show-nameserver>
</rpc-reply>
```

## Parameters

### *nameserver-portid*

Displays the list of all Nx\_Ports registered in the name server database of this managed device

### *nameserver-portname*

Displays the Port\_Name (WWN) of this Nx\_Port

### *nameserver-nodename*

Displays the Node\_Name (WWN) of this Nx\_Port

### *nameserver-cos*

Displays the Fibre Channel Class of service supported by the device

### *nameserver-scr*

Displays the state change notifications that the device has registered for

### *nameserver-fc4s*

Displays the Fibre Channel FC4 services supported by the device

### *nameserver-portsymb*

Displays the user-defined name of this port

### *nameserver-nodesymb*

Displays the user-defined name of the node of this port

### *nameserver-fabric-portname*

- Displays the Fabric port name (WWN) of this port  
*nameserver-permanent-portname*
- Displays the type and role of the device  
*nameserver-devicetype*
- Displays the type and role of the device  
*nameserver-porttype*
- Displays the Fibre Channel port type  
*nameserver-index*
- Displays the Port index number  
*nameserver-sharearea*
- Indicates whether or not the port utilizes the Brocade shared area method of fibre channel addressing  
*nameserver-redirect*
- Indicates whether or not the device is involved in Brocade frame redirection zoning  
*nameserver-xlatedomain*
- Indicates whether or not the device enters the fabric via a translate domain  
*nameserver-connected-via-ag*
- Indicates whether or not the device enters the fabric via access gateway  
*nameserver-ag-base-device*
- Indicates whether or not the device is a base access gateway device  
*nameserver-real*
- Indicates whether or not the device entered in the fabric via AG is a physical device  
*nameserver-cascaded*
- Indicates whether or not the device enters the fabric via a cascaded AG

# get-netconf-client-capabilities

Returns the vendor information for all NETCONF clients.

## Usage

```
<get-netconf-client-capabilities></get-netconf-client-capabilities>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="57">
  <session xmlns="urn:brocade.com:mgmt:brocade-netconf-ext">
    <session-id>30</session-id>
    <user-name>admin</user-name>
    <vendor>Brocade</vendor>
    <product>NOS Netconf Client</product>
    <version>0.8 beta</version>
    <identity>sgajaraj</identity>
    <af-type>IPV4</af-type>
    <host-ip>172.22.8.111</host-ip>
    <time>2014-06-04T11:00:35+00:00</time>
  </session>
</rpc-reply>
```

## Parameters

### *session-id*

Displays the session ID of the NETCONF client session

### *user-name*

Displays the login name of the user for the NETCONF client session

### *vendor*

Displays the vendor name of the NETCONF client session

### *product*

Displays the product name of the NETCONF client session

### *version*

Displays the product version of the NETCONF client session

### *identity*

Displays the identity of the NETCONF client session

### *af-type*

### *host-ip*

Displays IP address of NETCONF client session

### *time*

Displays the login time of NETCONF client session

## get-port-channel-detail

Returns link aggregation control configuration parameters for all the port-channels in the system.

### Usage

```
<get-port-channel-detail></get-port-channel-detail>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1002">
  <get-port-channel-detail xmlns="urn:brocade.com:mgmt:brocade-lag">
    <lacp>
      <aggregator-id>27</aggregator-id>
      <aggregator-type>standard</aggregator-type>
      <isvlag>false</isvlag>
      <aggregator-mode>none</aggregator-mode>
      <admin-key>0027</admin-key>
      <oper-key>0027</oper-key>
      <actor-system-id>00-05-33-6f-18-18</actor-system-id>
      <partner-system-id>00-05-1e-cd-6e-9f</partner-system-id>
      <system-priority>32768</system-priority>
      <partner-oper-priority>32768</partner-oper-priority>
      <rx-link-count>4</rx-link-count>
      <tx-link-count>4</tx-link-count>
      <individual-agg>0</individual-agg>
      <ready-agg>1</ready-agg>
      <partner-oper-key>0027</partner-oper-key>
      <aggr-member>
        <rbridge-id>231</rbridge-id>
        <interface-type>tengigabitethernet</interface-type>
        <interface-name>231/0/22</interface-name>
        <actor-port>0xE718160201</actor-port>
        <sync>1</sync>
      </aggr-member>
    </lacp>
    <has-more>true</has-more>
  </get-port-channel-detail>
</rpc-reply>
```

### Parameters

*aggregator-id*

Displays the aggregator ID

*aggregator-type*

Displays the aggregator type

*isvlag*

Specifies if aggregator is VLAG

*aggregator-mode*

Displays aggregator mode

*admin-key*

Displays the admin key

*oper-key*

Displays the operational key

*actor-system-id*

Displays the actor system ID

*partner-system-id*

Displays the partner system ID

*system-priority*  
Displays the System Priority

*partner-oper-priority*  
Displays the partner operational priority

*rx-link-count*  
Displays the RX link counter

*tx-link-count*  
Displays the TX link counter

*individual-agg*  
Displays the Individual aggregator

*ready-agg*  
Displays the Ready aggregator

*partner-oper-key*  
Displays the Partner Operational key

*rbridge-id*  
Displays the RBridge ID

*interface-type*  
Displays the interface type

*interface-name*  
Displays the interface name

*actor-port*  
Displays the actor port number

*sync*  
Displays the sync info

## get-portchannel-info-by-intf

Returns link aggregation control configuration parameters for a given aggregation port in the system.

### Usage

```
<get-portchannel-info-by-intf></get-portchannel-info-by-intf>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1004">
  <get-port-channel-info-by-intf xmlns="urn:brocade.com:mgmt:brocade-lag">
    <lacp>
      <interface-type>tengigabitethernet</interface-type>
      <interface-name>1/0/21</interface-name>
      <actor-port>0x18150014</actor-port>
      <admin-key>10</admin-key>
      <oper-key>0</oper-key>
      <actor-system-id>01-e0-52-00-01-00</actor-system-id>
      <partner-system-id>01-80-c2-00-00-01</partner-system-id>
      <system-priority>32768</system-priority>
      <partner-oper-priority>32768</partner-oper-priority>
      <actor-priority>32768</actor-priority>
      <receive-machine-state>current</recieve-machine-state>
      <periodic-transmission-machine-state>slow-periodic</periodic-
transmission-machine-state>
      <mux-machine-state>collecting-distributing</mux-machine-state>
      <admin-state>activity aggregation defaulted</admin-state>
      <oper-state>activity aggregation synchronization collecting
distributing</oper-state>
      <partner-oper-state>activity aggregation synchronization collecting
distributing</partner-oper-state>
      <partner-oper-port>100</partner-oper-port>
    </lacp>
  </get-port-channel-info-by-intf>
</rpc-reply>
```

### Parameters

*interface-type*

Displays interface type

*interface-name*

Displays interface name

*actor-port*

Displays the actor port number

*admin-key*

Displays the Admin key

*oper-key*

Displays the Operational key

*actor-system-id*

Displays the Actor system ID

*partner-system-id*

Displays the Partner system ID

*system-priority*

Displays the System Priority

*partner-oper-priority*

Displays partner operational priority



*actor-priority*  
Displays the Actor Priority

*receive-machine-state*  
Displays the state of the 'Receive Machine'

*periodic-transmission-machine-state*  
Displays the state of the 'Periodic Transmission machine'

*mux-machine-state*  
Displays the state of the 'Mux machine'

*admin-state*  
Displays the Admin state

*oper-state*  
Displays the Operational state

*partner-oper-state*  
Displays the Partner Operational state

*partner-oper-port*  
Displays the Partner Operational port

## get-port-profile-for-intf

Returns the port-profiles applied on ports and port-channels.

### Usage

```
<get-port-profile-for-intf></get-port-profile-for-intf>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="206">
  <interface xmlns="urn:brocade.com:mgmt:brocade-port-profile-ext">
    <interface-type>tengigabitethernet</interface-type>
    <interface-name>9/0/53</interface-name>
    <port-profile>
      <name>auto-VM_Network</name>
    </port-profile>
  </interface>
  <interface xmlns="urn:brocade.com:mgmt:brocade-port-profile-ext">
    <interface-type>tengigabitethernet</interface-type>
    <interface-name>9/0/54</interface-name>
    <port-profile>
      <name>auto-for_iscsi</name>
    </port-profile>
  </interface>
</rpc-reply>
```

### Parameters

*interface-type*

Displays the interface type

*interface-name*

Displays the interface name

*name*

Displays the port-profile name

# get-port-profile-status

Returns the status of a port-profile.

## Usage

```
<get-port-profile-status></get-port-profile-status>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="53">
  <port-profile xmlns="urn:brocade.com:mgmt:brocade-port-profile-ext">
    <name>UpgradedVlanProfile</name>
    <ppid>1</ppid>
    <is-active>false</is-active>
    <has-more>false</has-more>
  </port-profile>
</rpc-reply>
```

## Parameters

*name*

Displays the Profile name

*ppid*

Indicates the ID of the port-profile

*is-active*

Indicates if this port-profile is activated or not

## get-stp-brief-info

Returns Spanning Tree Protocol (STP) information.

### Usage

```
<get-stp-brief-info></get-stp-brief-info>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="2025">
  <get-stp-brief-info xmlns="urn:brocade.com:mgmt:brocade-xstp-ext">
    <spanning-tree-info>
      <stp-mode>STP</stp-mode>
      <stp>
        <route-bridge>
          <priority>32768</priority>
          <bridge-id>22</bridge-id>
          <hello-time>2</hello-time>
          <max-age>20</max-age>
          <forward-delay>15</forward-delay>
        </route-bridge>
        <bridge>
          <priority>32768</priority>
          <bridge-id>22</bridge-id>
          <hello-time>2</hello-time>
          <max-age>20</max-age>
          <forward-delay>15</forward-delay>
          <transmit-hold-count>6</transmit-hold-count>
          <migrate-time>3</migrate-time>
          <port>
            <interface-type>Tengigabitethernet</interface-type>
            <interface-name>22/0/1</interface-name>
            <spanningtree-enabled>true</spanningtree-enabled>
            (output truncated)
          </spanning-tree-info>
          <has-more>true</has-more>
          <last-instance>
            <instance-id>91</instance-id>
          </last-instance>
        </get-stp-brief-info>
      </rpc-reply>
```

### Parameters

#### *stp-mode*

Displays the type of the Spanning Tree Protocol configured on the switch

#### *priority*

Displays the Bridge priority

#### *bridge-id*

Displays the Bridge ID

#### *hello-time*

Displays the interval between two transmissions of BPDU packets sent by the Root Bridge to tell all other switches that it is indeed the Root Bridge (1 to 10 sec)

#### *max-age*

The Max Age may be set to ensure that old information does not endlessly circulate through redundant paths in the network, preventing the effective propagation of new information (6 to 40 sec)

#### *forward-delay*

Port on the Switch spends this time in the listening state while moving from the blocking state to the forwarding state (4 to 30 sec)

*transmit-hold-count*

*migrate-time*

*interface-type*

Displays the interface type

*interface-name*

Displays the interface name

*spanningtree-enabled*

Displays if the spanning tree is enabled

*instance-id*

## get-stp-mst-detail

Returns Multiple Spanning Tree Protocol (MSTP) details.

### Usage

```
<get-stp-mst-detail></get-stp-mst-detail>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="2">
  <cist xmlns="urn:brocade.com:mgmt:brocade-xstp-ext">
    <cist-root-id>8000.01e0.5200.3289</cist-root-id>
    <cist-bridge-id>8000.01e0.5200.3289</cist-bridge-id>
    <cist-reg-root-id>8000.01e0.5200.3289</cist-reg-root-id>
    <root-forward-delay>15</root-forward-delay>
    <hello-time>2</hello-time>
    <max-age>20</max-age>
    <max-hops>20</max-hops>
    <migrate-time>3</migrate-time>
    <port>
      <interface-type>tengigabitethernet</interface-type>
      <interface-name>14/1/11</interface-name>
      <spanningtree-enabled>>false</spanningtree-enabled>
      <if-index>203513856</if-index>
      <interface-id>32768</interface-id>
      <if-role>disabled</if-role>
      <if-state>forwarding</if-state>
      <internal-path-cost>0</internal-path-cost>
      <external-path-cost>0</external-path-cost>
      <configured-path-cost>2000</configured-path-cost>
      <designated-port-id>0</designated-port-id>
      <port-priority>128</port-priority>
      <designated-bridge-id>0000.0000.0000.0000</designated-bridge-id>
      <forward-transitions-count>0</forward-transitions-count>
      <port-hello-time>2</port-hello-time>
      <received-stp-type>none</received-stp-type>
      <transmitted-stp-type>mstp</transmitted-stp-type>
      <edge-port>off</edge-port>
      <auto-edge>no</auto-edge>
      <edge-delay>3</edge-delay>
      <admin-edge>no</admin-edge>
      <boundary-port>yes</boundary-port>
      <configured-root-guard>off</configured-root-guard>
      <oper-root-guard>off</oper-root-guard>
      <oper-bpdu-guard>off</oper-bpdu-guard>
      <oper-bpdu-filter>off</oper-bpdu-filter>
      <link-type>point-to-point</link-type>
      <rx-bpdu-count>0</rx-bpdu-count>
      <tx-bpdu-count>0</tx-bpdu-count>
    </port>
  </cist>
  <msti xmlns="urn:brocade.com:mgmt:brocade-xstp-ext">
    <instance-id>2</instance-id>
    <msti-root-id>8002.01e0.5200.3289</msti-root-id>
    <msti-bridge-id>8002.01e0.5200.3289</msti-bridge-id>
    <msti-bridge-priority>32770</msti-bridge-priority>
    <port>
      <interface-type>tengigabitethernet</interface-type>
      <interface-name>14/1/21</interface-name>
      <spanningtree-enabled>>true</spanningtree-enabled>
      <if-index>203595776</if-index>
      <interface-id>32770</interface-id>
      <if-role>designated</if-role>
      <if-state>forwarding</if-state>
      <internal-path-cost>0</internal-path-cost>
      <configured-path-cost>2000</configured-path-cost>
      <designated-port-id>32770</designated-port-id>
      <port-priority>128</port-priority>
      <designated-bridge-id>8002.01e0.5200.3289</designated-bridge-id>
      <forward-transitions-count>1</forward-transitions-count>
      <received-stp-type>mstp</received-stp-type>
      <transmitted-stp-type>mstp</transmitted-stp-type>
    </port>
  </msti>
</rpc-reply>
```

```

        <edge-port>off</edge-port>
        <auto-edge>no</auto-edge>
        <edge-delay>3</edge-delay>
        <admin-edge>no</admin-edge>
        <rx-bpdu-count>3</rx-bpdu-count>
        <tx-bpdu-count>263</tx-bpdu-count>
    </port>
</msti>
<has-more xmlns="urn:brocade.com:mgmt:brocade-xstp-ext">false</has-more>
</rpc-reply>

```

## Parameters

|                             |  |
|-----------------------------|--|
| <i>cist-root-id</i>         | Displays the CIST Root ID                  |
| <i>cist-bridge-id</i>       | Displays the CIST bridge ID                |
| <i>cist-reg-root-id</i>     | Displays the CIST regional root ID         |
| <i>root-forward-delay</i>   | Displays the CIST root forward delay       |
| <i>hello-time</i>           | Displays the CIST root hello time          |
| <i>max-age</i>              | Displays the CIST root maximum age         |
| <i>max-hops</i>             | Displays the Hops the BPDU will be valid   |
| <i>migrate-time</i>         | Displays the Migration time                |
| <i>interface-type</i>       | Displays the interface type                |
| <i>interface-name</i>       | Displays the interface name                |
| <i>spanningtree-enabled</i> | Indicates if spanning tree enabled         |
| <i>if-index</i>             | Displays the interface index               |
| <i>interface-id</i>         | Displays the interface ID                  |
| <i>if-role</i>              | Displays the interface role                |
| <i>if-state</i>             | Displays the interface state               |
| <i>internal-path-cost</i>   | Displays the designated internal path cost |
| <i>external-path-cost</i>   | Displays the designated external path cost |
| <i>configured-path-cost</i> |  |

Displays the configured path cost

*designated-port-id*  
Displays the designated port ID

*port-priority*  
Displays the port priority

*designated-bridge-id*  
Displays the designated bridge ID

*forward-transitions-count*  
Displays the number of forward transitions

*port-hello-time*  
Displays the port hello time

*received-stp-type*  
Displays the received (rx) stp type

*transmitted-stp-type*  
Displays the transmitted (tx) stp type

*edge-port*  
Displays the edge port mode

*auto-edge*  
Displays the auto edge

*edge-delay*  
Displays the edge delay

*admin-edge*  
Displays the admin edge

*boundary-port*  
Displays the boundary port

*configured-root-guard*  
Displays the configured root guard

*oper-root-guard*  
Displays the operational root guard

*oper-bpdu-guard*  
Displays the operational BPDU guard

*oper-bpdu-filter*  
Displays the operational BPDU filter

*link-type*  
Displays Point-to-point - enable rapid transition

*rx-bpdu-count*  
Displays received BPDU count

*tx-bpdu-count*  
Displays transmitted BPDU count

*instance-id*  
Displays the instance ID of the last received spanning-tree instance

*msti-root-id*  
Displays the MSTI Root ID



*msti-bridge-id*

Displays the MSTI bridge ID

*msti-bridge-priority*

Displays the MSTI bridge priority

## get-system-uptime

Returns the time since the managed entity was last reinitialized.

### Usage

```
<get-system-uptime></get-system-uptime>
```

```
<rpc-reply message-id="307" xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">  
  <show-system-uptime xmlns="urn:brocade.com:mgmt:brocade-system">rbridge-id<  
    <days>0</days>  
    <hours>5</hours>  
    <minutes>53</minutes>  
    <seconds>4</seconds>  
  </show-system-uptime>  
</rpc-reply>
```

### Parameters

*rbridge-id*

Specifies the RBridge-ID

*days*

Displays the number of days the managed node is up since its last re-initialization

*hours*

Displays the number of hours the managed node is up since its last re-initialization

*minutes*

Displays the number of minutes the managed node is up since its last re-initialization

*seconds*

Displays the number of seconds the managed node is up since its last re-initialization

## get-vcs-details

Retains detailed VCS fabric information.

### Usage

```
<get-vcs-details></get-vcs-details>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="48">
  <vcs-details xmlns="urn:brocade.com:mgmt:brocade-vcs">
    <node-vcs-mode>true</node-vcs-mode>
    <local-switch-wwn>10:00:50:EB:1A:17:3F:F1</local-switch-wwn>
    <node-vcs-type>vcs-management-cluster</node-vcs-type>
    <node-vcs-id>1</node-vcs-id>
    <principal-switch-wwn>10:00:00:27:F8:FD:00:00</principal-switch-wwn>
    <co-ordinator-wwn>10:00:00:27:F8:FD:00:00</co-ordinator-wwn>
  </vcs-details>
</rpc-reply>
```

### Parameters

*node-vcs-mode*

Displays Node's VCS mode

*local-switch-wwn*

Displays the WWN of local switch

*node-vcs-type*

Displays the VCS types

*node-vcs-id*

Displays the VCS ID

*principal-switch-wwn*

Displays the WWN of the principal switch

*co-ordinator-wwn*

Displays the WWN of the coordinator switch

## get-vlan-brief

Returns operational data for a given VLAN and enumeration of all the interfaces belonging to this VLAN.

### Usage

```
<get-vlan-brief></get-vlan-brief>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="47">
  <configured-vlans-count xmlns="urn:brocade.com:mgmt:brocade-interface-ext">13</
configured-vlans-count>
  <provisioned-vlans-count xmlns="urn:brocade.com:mgmt:brocade-interface-ext">13</
provisioned-vlans-count>
  <unprovisioned-vlans-count xmlns="urn:brocade.com:mgmt:brocade-interface-ext">0</
unprovisioned-vlans-count>
  <vlan xmlns="urn:brocade.com:mgmt:brocade-interface-ext">
    <vlan-id>1</vlan-id>
    <vlan-type>static</vlan-type>
    <vlan-name>default</vlan-name>
    <vlan-state>members-down</vlan-state>
    <interface>
      <interface-type>unknown</interface-type>
      <interface-name></interface-name>
      <tag>tagged</tag>
      <classification>
        <classification-type>vni</classification-type>
        <classification-value>2</classification-value>
      </classification>
    </interface>
  </vlan>
  <last-vlan-id xmlns="urn:brocade.com:mgmt:brocade-interface-ext">200</last-vlan-
id>
  <has-more xmlns="urn:brocade.com:mgmt:brocade-interface-ext">true</has-more>
</rpc-reply>
```

### Parameters

*configured-vlans-count*

*provisioned-vlans-count*

*unprovisioned-vlans-count*

*vlan-id*

Displays the VLAN ID

*vlan-type*

Displays the VLAN type

*vlan-name*

Displays the administrative name of the VLAN

*vlan-state*

Displays the operational state of the VLAN

*interface-type*

Displays the interface type

*interface-name*

Displays the interface name

*tag*

Displays the state of the interface - untagged, tagged, or converged

*classification-type*

Displays the type of classification

*classification-value*

Displays the value of the VLAN classification

*last-vlan-id*

Displays the last VLAN record that has been fetched

## get-vmppolicy-macaddr

Returns vnics/vmknics to port group to port-profile association.

### Usage

```
<get-vmppolicy-macaddr xmlns="urn:brocade.com:mgmt:brocade-vswitch">
  <vcenter>VC6</vcenter>
</get-vmppolicy-macaddr>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
  <vmppolicy-macaddr xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <mac>00:21:5e:c6:0e:c8</mac>
    <datacenter>datacenter-4381</datacenter>
    <dvpg-nn>Management Network</dvpg-nn>
    <port-prof>auto_VC6_datacenter-4381_Management+Network</port-prof>
  </vmppolicy-macaddr>
  <instance-id xmlns="urn:brocade.com:mgmt:brocade-vswitch">0</instance-id>
  <has-more xmlns="urn:brocade.com:mgmt:brocade-vswitch">false</has-more>
</rpc-reply>
```

### Parameters

*vcenter*

*mac*

Displays MAC address in HH:HH:HH:HH:HH:HH format

*datacenter*

Displays the name of the datacenter

*dvpg-nn*

Displays distributed virtual port group

*port-prof*

Displays the port-profile

*instance-id*

# get-vnetwork-dvpgs

Returns discovered distributed virtual port groups.

## Usage

```
<get-vnetwork-dvpgs xmlns="urn:brocade.com:mgmt:brocade-vswitch">
  <vcenter>VC6</vcenter>
</get-vnetwork-dvpgs>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
  <vnetwork-dvpgs xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <name>dvPortGroup</name>
    <datacenter>datacenter-2</datacenter>
    <dvs-nn>dvSwitch</dvs-nn>
    <vlan>0,</vlan>
  </vnetwork-dvpgs>
  <vnetwork-dvpgs xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <name>dvSwitch-DVUplinks-4504</name>
    <datacenter>datacenter-2</datacenter>
    <dvs-nn>dvSwitch</dvs-nn>
    <vlan>0-4094,</vlan>
  </vnetwork-dvpgs>
  <instance-id xmlns="urn:brocade.com:mgmt:brocade-vswitch">0</instance-id>
  <has-more xmlns="urn:brocade.com:mgmt:brocade-vswitch">>false</has-more>
</rpc-reply>
```

## Parameters

|                    |                                     |
|--------------------|-------------------------------------|
| <i>vcenter</i>     |                                     |
| <i>name</i>        | Displays port group name            |
| <i>datacenter</i>  | Displays datacenter name            |
| <i>dvs-nn</i>      | Displays distributed virtual switch |
| <i>vlan</i>        | Displays allowed VLANs              |
| <i>instance-id</i> |                                     |

## get-vnetwork-dvs

Returns discovered Distributed Virtual Switches.

### Usage

```
<get-vnetwork-dvs xmlns="urn:brocade.com:mgmt:brocade-vswitch">
  <vcenter>VC6</vcenter>
</get-vnetwork-dvs>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
  <vnetwork-dvs xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <name>dvSwitch</name>
    <datacenter>datacenter-2</datacenter>
    <host>ESX5-1-74.englab.brocade.com</host>
    <pnict>vmmic4</pnict>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
  </vnetwork-dvs>
  <vnetwork-dvs xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <name>dvSwitch</name>
    <datacenter>datacenter-2</datacenter>
    <host>ESX5-1-74.englab.brocade.com</host>
    <pnict>vmmic9</pnict>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
  </vnetwork-dvs>
  <instance-id xmlns="urn:brocade.com:mgmt:brocade-vswitch">0</instance-id>
  <has-more xmlns="urn:brocade.com:mgmt:brocade-vswitch">false</has-more>
</rpc-reply>
```

### Parameters

|                       |  |
|-----------------------|--|
| <i>name</i>           | Displays distributed virtual switch name |
| <i>datacenter</i>     | Displays host datacenter                 |
| <i>host</i>           | Displays host name                       |
| <i>pnict</i>          | Displays host NIC                        |
| <i>interface-type</i> |  |
| <i>interface-name</i> | Displays interface name                  |
| <i>instance-type</i>  | Displays interface type                  |



# get-vnetwork-hosts

Returns discovered hosts.

## Usage

```
<get-vnetwork-hosts xmlns="urn:brocade.com:mgmt:brocade-vswitch">
  <vcenter>VC7</vcenter>
</get-vnetwork-hosts>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
  <vnetwork-hosts xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <name>ESXi5-1-76.englab.brocade.com</name>
    <datacenter>datacenter-21</datacenter>
    <vmnic>vmnic0</vmnic>
    <mac>00:21:5e:c6:22:00</mac>
    <vswitch>vSwitch0</vswitch>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
  </vnetwork-hosts>
  <vnetwork-hosts xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <name>ESXi5-1-76.englab.brocade.com</name>
    <datacenter>datacenter-21</datacenter>
    <vmnic>vmnic4</vmnic>
    <mac>00:05:1e:b1:12:86</mac>
    <vswitch>vSwitch2</vswitch>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
  </vnetwork-hosts>
  <instance-id xmlns="urn:brocade.com:mgmt:brocade-vswitch">0</instance-id>
  <has-more xmlns="urn:brocade.com:mgmt:brocade-vswitch">false</has-more>
</rpc-reply>
```

## Parameters

*name*

Displays host name

*datacenter*

Displays host datacenter

*vmnic*

Displays host NIC

*mac*

Displays Vmnic MAC address in HH:HH:HH:HH:HH:HH format

*vswitch*

Displays regular or distributed virtual switch

*interface-type*

Displays interface type

*interface-name*

Displays interface name

*instance-id*

## get-vnetwork-portgroups

Returns discovered port groups.

### Usage

```
<get-vnetwork-portgroups xmlns="urn:brocade.com:mgmt:brocade-vswitch">
  <vcenter>VC7</vcenter>
</get-vnetwork-portgroups>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
  <vnetwork-pgs xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <name>Management Network</name>
    <datacenter>datacenter-2</datacenter>
    <vlan>0</vlan>
    <host-nn>ESX5-0-72.englab.brocade.com</host-nn>
  </vnetwork-pgs>
  <vnetwork-pgs>
    <name>Management Network</name>
    <datacenter>datacenter-4381</datacenter>
    <vlan>0</vlan>
    <host-nn>ESXi5-0-71.englab.brocade.com</host-nn>
  </vnetwork-pgs>
  <instance-id xmlns="urn:brocade.com:mgmt:brocade-vswitch">0</instance-id>
  <has-more xmlns="urn:brocade.com:mgmt:brocade-vswitch">false</has-more>
</rpc-reply>
```

### Parameters

|                    |                              |
|--------------------|------------------------------|
| <i>name</i>        | Displays the host name       |
| <i>datacenter</i>  | Displays the host datacenter |
| <i>vlan</i>        | Displays allowed VLANs       |
| <i>host-nn</i>     | Displays host name           |
| <i>instance-id</i> |                              |

# get-vnetwork-vms

Returns discovered VMs.

## Usage

```
<get-vnetwork-vms xmlns="urn:brocade.com:mgmt:brocade-vswitch">
  <vcenter>VC7</vcenter>
</get-vnetwork-vms>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
  <vnetwork-vms xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <name>KVM_Hyperv_101_castor_castor</name>
    <datacenter>datacenter-2</datacenter>
    <mac>00:50:56:b3:5e:25</mac>
    <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
  </vnetwork-vms>
  <vnetwork-vms>
    <name>KVM_Hyperv_101_castor_castor</name>
    <datacenter>datacenter-2</datacenter>
    <mac>00:50:56:b3:6b:19</mac>
    <host-nn>ESX5-1-74.englab.brocade.com</host-nn>
  </vnetwork-vms>
</rpc-reply>
```

## Parameters

|                   |                          |
|-------------------|--------------------------|
| <i>name</i>       | Displays host name       |
| <i>datacenter</i> | Displays host datacenter |
| <i>mac</i>        | Displays MAC address     |
| <i>host-nn</i>    | Displays host name       |

# get-vnetwork-vswitches

Returns discovered virtual switches.

## Usage

```
<get-vnetwork-vswitches xmlns="urn:brocade.com:mgmt:brocade-vswitch">
  <vcenter>VC6</vcenter>
</get-vnetwork-vswitches>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
  <vnetwork-vswitches xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <name>vSwitch0</name>
    <datacenter>datacenter-2</datacenter>
    <host>ESX5-0-72.englab.brocade.com</host>
    <pnic>vmnic0</pnic>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
  </vnetwork-vswitches>
  <vnetwork-vswitches xmlns="urn:brocade.com:mgmt:brocade-vswitch">
    <name>vSwitch0</name>
    <datacenter>datacenter-2</datacenter>
    <host>ESX5-1-74.englab.brocade.com</host>
    <pnic>vmnic0</pnic>
    <interface-type>unknown</interface-type>
    <interface-name></interface-name>
  </vnetwork-vswitches>
</rpc-reply>
```

## Parameters

|                       |                              |
|-----------------------|------------------------------|
| <i>name</i>           | Displays Virtual switch name |
| <i>datacenter</i>     | Displays host datacenter     |
| <i>host</i>           | Displays host name           |
| <i>pnic</i>           | Displays host NIC            |
| <i>interface-type</i> | Displays interface type      |
| <i>interface-name</i> | Displays interface name      |

# l2traceroute-result

Returns the result of a TRILL traceroute.

## Usage

```
<l2traceroute-result xmlns=""urn:brocade.com:mgmt:brocade-trilloam"">
  <session-id>131073</session-id>
</l2traceroute-result>

<rpc-reply xmlns=""urn:ietf:params:xml:ns:netconf:base:1.0"" message-id=""1"">
  <l2-hop-results></l2-hop-results>
  <l2traceroutedone>true</l2traceroutedone>
  <reason>Timed-out waiting for a response</reason>
</rpc-reply>
```

## Parameters

*l2-hop-results*

*l2traceroutedone*

*reason*

## maps-get-all-policy

Retrieves the existing MAPS Policies.

### Usage

```
<maps-get-all-policy></maps-get-all-policy>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="3">
  <policy xmlns="urn:brocade.com:mgmt:brocade-maps-ext">
    <policyname>dflt_conservative_policy</policyname>
    <policyname>dflt_aggressive_policy</policyname>
    <policyname>dflt_moderate_policy</policyname>
  </policy>
</rpc-reply>
```

### Parameters

*policyname*

Displays MAPS policy name

# maps-get-rules

Retrieves the existing MAPS Rules.

## Usage

```
<maps-get-rules></maps-get-rules>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="3">
  <rules xmlns="urn:brocade.com:mgmt:brocade-maps-ext">
    <rulename>defALL_ETH_PORTS_CRCALN_6</rulename>
    <groupname>ALL_ETH_PORTS</groupname>
    <monitor>CRCALN</monitor>
    <op>></op>
    <value>6</value>
    <action>RASLOG,SNMP,EMAIL</action>
    <timebase>MIN</timebase>
    <polycyname>dflt_aggressive_policy</polycyname>
  </rules>
</rpc-reply>
```

## Parameters

*rulename*

Displays MAPS rule name

*groupname*

Displays MAPS group name

*monitor*

Displays MAPS monitor name

*op*

Displays MAPS operator

*value*

Displays MAPS threshold value

*action*

Displays MAPS action value

*timebase*

Displays MAPS timebase value

*polycyname*

Displays MAPS policy associated with rule

## no-vcs-rbridge-context

Disables VCS Fabric mode.

### Usage

```
<no-vcs-rbridge-context></no-vcs-rbridge-context>
```



# reload

Reloads the switch.

## Usage

```
<reload xmlns="urn:brocade.com:mgmt:brocade-ha"></reload>
```

## set-http-application-url

Updates the HTTP application URL.

### Usage

```
<set-http-application-url xmlns="urn:brocade.com:mgmt:brocade-http-redirect">
  <config-http-app-url>
    <url>www.google.com</url>
    <op-type>1</op-type>
  </config-http-app-url>
</set-http-application-url>

<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
  <status-code>0</status-code>
  <status-string>Success</status-string>
</rpc-reply>
```

### Parameters

*status-code*

Displays the status code as URL updated successfully - 0, Error not able to update configuration - 1 or Error not able to remove configuration - 2

*status-string*

Displays the error in string format

# show-bare-metal-state

Indicates the bare-metal state on the system.

## Usage

```
<show-bare-metal-state></show-bare-metal-state>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="3">
  <bare-metal-state xmlns="urn:brocade.com:mgmt:brocade-preprovision">disable</bare-
metal-state>
</rpc-reply>
```

## Parameters

*bare-metal-state*

Indicates the bare-metal state on the system

# show-clock

Returns the date, time, and time zone.

## Usage

```
<show-clock></show-clock>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="7">
  <clock-time xmlns="urn:brocade.com:mgmt:brocade-clock">
    <rbridge-id-out>2</rbridge-id-out>
    <current-time>2014-06-04T11:03:31+00:00</current-time>
    <timezone>Etc/GMT</timezone>
  </clock-time>
</rpc-reply>
```

## Parameters

*rbridge-id-out*

Displays the RBridge ID

*current-time*

Displays the switch date and time

*timezone*

Displays the region/city or region/state/city

# NETCONF path

Returns all ISL trunk information in a fabric.

## Usage

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
  <show-trunk-list xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
    <trunk-list-groups>
      <trunk-list-group>1</trunk-list-group>
      <trunk-list-member>
        <trunk-list-src-port>74</trunk-list-src-port>
        <trunk-list-interface-type>Te</trunk-list-interface-type>
        <trunk-list-src-interface>3/0/11</trunk-list-src-interface>
        <trunk-list-nbr-rbridge-id>1</trunk-list-nbr-rbridge-id>
        <trunk-list-nbr-port>162</trunk-list-nbr-port>
        <trunk-list-nbr-interface-type>Te</trunk-list-nbr-interface-type>
        <trunk-list-nbr-interface>1/0/19</trunk-list-nbr-interface>
        <trunk-list-nbr-wwn>10:00:00:05:33:E6:9C:00</trunk-list-nbr-wwn>
        <trunk-list-is-primary>True</trunk-list-is-primary>
      </trunk-list-member>
      <trunk-list-member>
        <trunk-list-src-port>72</trunk-list-src-port>
        <trunk-list-interface-type>Te</trunk-list-interface-type>
        <trunk-list-src-interface>3/0/9</trunk-list-src-interface>
        <trunk-list-nbr-rbridge-id>1</trunk-list-nbr-rbridge-id>
        <trunk-list-nbr-port>164</trunk-list-nbr-port>
        <trunk-list-nbr-interface-type>Te</trunk-list-nbr-interface-type>
        <trunk-list-nbr-interface>1/0/21</trunk-list-nbr-interface>
        <trunk-list-nbr-wwn>10:00:00:05:33:E6:9C:00</trunk-list-nbr-wwn>
        <trunk-list-is-primary>False</trunk-list-is-primary>
      </trunk-list-member>
      <trunk-list-member>
        <trunk-list-src-port>73</trunk-list-src-port>
        <trunk-list-interface-type>Te</trunk-list-interface-type>
        <trunk-list-src-interface>3/0/10</trunk-list-src-interface>
        <trunk-list-nbr-rbridge-id>1</trunk-list-nbr-rbridge-id>
        <trunk-list-nbr-port>165</trunk-list-nbr-port>
        <trunk-list-nbr-interface-type>Te</trunk-list-nbr-interface-type>
        <trunk-list-nbr-interface>1/0/22</trunk-list-nbr-interface>
        <trunk-list-nbr-wwn>10:00:00:05:33:E6:9C:00</trunk-list-nbr-wwn>
        <trunk-list-is-primary>False</trunk-list-is-primary>
      </trunk-list-member>
    </trunk-list-groups>
  </show-trunk-list>
</rpc-reply>
```

## Parameters

### *trunk-list-group*

Provides the trunk group number the interface belongs to. Trunk members of a trunk group have the same group number

### *trunk-list-src-port*

Displays the source port index of the trunk member

### *trunk-list-interface-type*

Displays the interface type

### *trunk-list-src-interface*

Displays the source port interface info

### *trunk-list-nbr-rbridge-id*

Displays the RBbridge id of the neighboring switch that connects to this trunk member port

*trunk-list-nbr-port*

Displays neighbor port index of the trunk member

*trunk-list-nbr-interface-type*

Displays the interface type

*trunk-list-nbr-interface*

Displays the neighbour port interface info

*trunk-list-nbr-wwn*

Displays WWN of the neighboring switch that connects to this trunk member port

*trunk-list-is-primary*

Indicates whether the port is Trunk master or not

## History

| Release version | History                           |
|-----------------|-----------------------------------|
| 7.0.0           | This Netconf call was introduced. |

# show-fibrechannel-interface-info

Provides detailed information of Fibre Channel ports in the routing bridge.

## Usage

```
<show-fibrechannel-interface-info></show-fibrechannel-interface-info>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="9">
  <show-fibrechannel-interface xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
    <portsgroup-rbridgeid>2</portsgroup-rbridgeid>
  </show-fibrechannel-interface>
</rpc-reply>
```

## Parameters

*portsgroup-rbridgeid*

Displays the RBridge ID of the switch

## show-firmware-version

Returns firmware version information.

### Usage

```
<show-firmware-version></show-firmware-version>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="10">
  <show-firmware-version xmlns="urn:brocade.com:mgmt:brocade-firmware-ext">
    <switchid>2</switchid>
    <os-name>Network Operating System Software</os-name>
    <os-version>6.0.1</os-version>
    <copy-right-info>Copyright (c) 1995-2014 Brocade Communications Systems,
Inc.</copy-right-info>
    <build-time>Tue Jul 14 02:28:36 2015</build-time>
    <firmware-full-version>6.0.1a_rc1_bld02</firmware-full-version>
    <control-processor-vendor>Freescale Semiconductor</control-processor-vendor>
    <control-processor-chipset>P4040</control-processor-chipset>
    <control-processor-memory>4096 MB</control-processor-memory>
    <node-info>
      <slot-no>0</slot-no>
      <node-instance-no>1</node-instance-no>
      <node-type>type-mm</node-type>
      <firmware-version-info>
        <application-name>NOS</application-name>
        <primary-version>6.0.1a_rc1_bld02</primary-version>
        <secondary-version>6.0.1a_rc1_bld02</secondary-version>
      </firmware-version-info>
    </node-info>
  </show-firmware-version>
</rpc-reply>
```

### Parameters

*switchid*

Switch ID specifies the particular switch to fetch firmware version information

*os-name*

Displays the name of the Firmware version. Example: NOS, FOS, etc.

*os-version*

Displays the version of the Firmware

*copy-right-info*

Displays the copyright information of the Firmware

*build-time*

Displays the time information on the build of Firmware

*firmware-full-version*

Displays the full version string of Firmware

*control-processor-vendor*

Displays information on the control processor

*control-processor-chipset*

Displays information on the control processor

*control-processor-memory*

Displays memory of the control processor

*slot-no*



Displays the slot number

*node-instance-no*

Displays the instance number

*node-type*

Displays the node type

*application-name*

Displays the name of the application

*primary-version*

Indicates the primary version

*secondary-version*

Indicates the secondary version

## show-linkinfo

Returns details of all the links connected in the fabric.

### Usage

```
<show-linkinfo></show-linkinfo>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="11">
  <show-link-info xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
    <linkinfo-rbridgeid>1</linkinfo-rbridgeid>
    <linkinfo-domain-reachable>Yes</linkinfo-domain-reachable>
    <linkinfo-version>1</linkinfo-version>
    <linkinfo-wwn>10:00:00:27:F8:FD:00:00</linkinfo-wwn>
    <linkinfo-isl>
      <linkinfo-isl-linknumber>1</linkinfo-isl-linknumber>
      <linkinfo-isllink-destdomain>2</linkinfo-isllink-destdomain>
      <linkinfo-isllink-srcport>64</linkinfo-isllink-srcport>
      <linkinfo-isllink-srcport-type>Te</linkinfo-isllink-srcport-type>
      <linkinfo-isllink-srcport-interface>1/0/1</linkinfo-isllink-srcport-
interface>
      <linkinfo-isllink-destport>64</linkinfo-isllink-destport>
      <linkinfo-isllink-destport-type>Te</linkinfo-isllink-destport-type>
      <linkinfo-isllink-destport-interface>2/0/1</linkinfo-isllink-destport-
interface>
      <linkinfo-isl-linkcost>500</linkinfo-isl-linkcost>
      <linkinfo-isllink-costcount>10</linkinfo-isllink-costcount>
      <linkinfo-isllink-type>4</linkinfo-isllink-type>
      <linkinfo-trunked>Yes</linkinfo-trunked>
    </linkinfo-isl>
  </show-link-info>
</rpc-reply>
```

### Parameters

*linkinfo-rbridgeid*

Displays the RBridge ID of the node in the fabric

*linkinfo-domain-reachable*

Indicates whether the RBridge is reachable or not

*linkinfo-version*

Displays the FSPF version

*linkinfo-wwn*

Displays the WWN of the switch

*linkinfo-isl-linknumber*

*linkinfo-isllink-destdomain*

*linkinfo-isllink-srcport*

*linkinfo-isllink-srcport-type*

*linkinfo-isllink-srcport-interface*

*linkinfo-isllink-destport*

*linkinfo-isllink-destport-type*

*linkinfo-isllink-destport-interface*

*linkinfo-isl-linkcost*

*linkinfo-islink-costcount*

*linkinfo-islink-type*

*linkinfo-trunked*

## show-ntp

Returns the active NTP server for the Brocade VCS fabric or specified switch.

### Usage

```
<show-ntp></show-ntp>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="12">
  <node-active-server xmlns="urn:brocade.com:mgmt:brocade-ntp">
    <rbridge-id-out>2</rbridge-id-out>
    <LOCL>true</LOCL>
  </node-active-server>
</rpc-reply>
```

### Parameters

*rbridge-id-out*

Displays the RBridge ID

*LOCL*

Indicates whether the LOCL is true or false

# show-portindex-interface-info

Returns the details of 10Gb Ethernet and FCoE ports.

## Usage

```
<show-portindex-interface-info></show-portindex-interface-info>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="13">
  <show-portindex-interface xmlns="urn:brocade.com:mgmt:brocade-fabric-service">
    <portsgroup-rbridgeid>2</portsgroup-rbridgeid>
    <show-portindex>
      <port-index>64</port-index>
      <port-interface>2/0/1</port-interface>
      <port-type>Te</port-type>
    </show-portindex>
    <show-portindex>
      <port-index>113</port-index>
      <port-interface>2/0/50</port-interface>
      <port-type>Fo</port-type>
    </show-portindex>
    <show-portindex>
      <port-index>114</port-index>
      <port-interface>2/0/51</port-interface>
      <port-type>Fo</port-type>
    </show-portindex>
    <show-portindex>
      <port-index>115</port-index>
      <port-interface>2/0/52</port-interface>
      <port-type>Fo</port-type>
    </show-portindex>
  </show-portindex-interface>
</rpc-reply>
```

## Parameters

### *portsgroup-rbridgeid*

Displays the RBridge ID of the switch in the cluster

### *port-index*

Displays the port index of the RBridge

### *port-interface*

Displays the port index interface of the RBridge

### *port-type*

Displays the port type of the RBridge

# show-raslog

Returns RASlog entries.

## Usage

```
<show-raslog></show-raslog>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="14">
  <show-all-raslog xmlns="urn:brocade.com:mgmt:brocade-ras-ext">
    <rbridge-id>2</rbridge-id>
    <number-of-entries>2842</number-of-entries>
    <raslog-entries>
      <index>8288</index>
      <message-id>NSM-1019</message-id>
      <date-and-time-info>2013/12/07-03:21:17:69</date-and-time-info>
      <severity>informational</severity>
      <log-type>dce</log-type>
      <repeat-count>1</repeat-count>
      <message> Interface Ve 4093 is administratively up.</message>
      <message-flag>unknown</message-flag>
      <switch-or-chassis-name>sw0</switch-or-chassis-name>
    </raslog-entries>
    <raslog-entries>
      <index>13584</index>
      <message-id>SEC-3022</message-id>
      <date-and-time-info>2014/06/03-14:03:52:25</date-and-time-info>
      <severity>informational</severity>
      <log-type>system</log-type>
      <repeat-count>1</repeat-count>
      <message>Event: logout, Status: success, Info: Successful logout by user
[admin].</message>
      <message-flag>unknown</message-flag>
      <switch-or-chassis-name>sw0</switch-or-chassis-name>
    </raslog-entries>
  </show-all-raslog>
</rpc-reply>
```

## Parameters

### *rbridge-id*

Displays the RBridge ID

### *number-of-entries*

Displays the number of recent events to be fetched from the RASLOG entries

### *index*

Displays the sequence number for the message

### *message-id*

Displays the message identifier

### *date-and-time-info*

Displays the date and time of the message. The format is: YYYY-MM-DD/  
HH:MM:SS.SSSS

### *severity*

Displays the severity of the message. Valid values include: INFO, WARNING, ERROR,  
and CRITICAL

### *log-type*

Specifies if the message is a SYSTEM or DCE log

*repeat-count*

Displays the number of times the particular event has occurred

*message*

Displays the textual description of the event

*message-flag*

Displays the type of the message

*switch-or-chassis-name*

Displays the switch name for the generator of the message, or chassis

## show-support-save-status

Returns information about the status of a recent support save request.

### Usage

```
<show-support-save-status></show-support-save-status>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="15">
  <show-support-save-status xmlns="urn:brocade.com:mgmt:brocade-ras-ext">
    <rbridge-id>2</rbridge-id>
    <status>unknown</status>
    <message>supportsave is not running.</message>
    <percentage-of-completion>0</percentage-of-completion>
  </show-support-save-status>
</rpc-reply>
```

### Parameters

*rbridge-id*

Displays the RBridge ID

*status*

Displays the status of recent support save

*message*

Displays the textual description of status of recent support save

*percentage-of-completion*

Displays the value of percentage of completion



# show-system-info

Returns the routing bridge ID and MAC address of the switch.

## Usage

```
<show-system-info></show-system-info>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="16">
  <show-system-info xmlns="urn:brocade.com:mgmt:brocade-ras-ext">
    <rbridge-id>2</rbridge-id>
    <stack-mac>50:eb:1a:17:3f:f1</stack-mac>
  </show-system-info>
</rpc-reply>
```

## Parameters

*rbridge-id*

Displays the RBridge ID

*stack-mac*

Displays the MAC address of the switch

# show-system-monitor

Returns system status information.

## Usage

```
<show-system-monitor></show-system-monitor>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="17">
  <switch-status xmlns="urn:brocade.com:mgmt:brocade-system-monitor-ext">
    <rbridge-id-out>2</rbridge-id-out>
    <switch-name>sw0</switch-name>
    <switch-ip>10.25.224.18</switch-ip>
    <switch-state>state-marginal</switch-state>
    <switch-state-reason>Switch Status is MARGINAL. Contributors: * Power
Supply: 1 bad. (MARGINAL).</switch-state-reason>
    <report-time>2014-06-04T11:10:5711.668484+31:03</report-time>
    <component-status>
      <component-name>Power supplies monitor</component-name>
      <component-state>state-marginal</component-state>
    </component-status>
    <component-status>
      <component-name>Temperatures monitor</component-name>
      <component-state>state-healthy</component-state>
    </component-status>
    <component-status>
      <component-name>Fans monitor</component-name>
      <component-state>state-healthy</component-state>
    </component-status>
  </switch-status>
</rpc-reply>
```

## Parameters

### *rbridge-id-out*

Displays the RBridge ID

### *switch-name*

Displays the name of the switch

### *switch-ip*

Displays the IP address of the switch

### *switch-state*

Displays the switch status based on components

### *switch-state-reason*

Displays the component reason for switch status

### *report-time*

Displays the switch report time stamp

### *component-name*

Displays the component name

### *component-state*

Displays the component status based on thresholds

# show-vcs

Provides general VCS fabric information.

## Usage

```
<show-vcs></show-vcs>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="18">
  <vcs-cluster-type-info xmlns="urn:brocade.com:mgmt:brocade-vcs">vcs-management-
cluster</vcs-cluster-type-info>
  <vcs-guid xmlns="urn:brocade.com:mgmt:brocade-vcs">fba9bb11-
bd89-4605-969f-4e7d2f85de27</vcs-guid>
  <virtual-ip-address xmlns="urn:brocade.com:mgmt:brocade-vcs">NULL</virtual-ip-
address>
  <principal-switch-wwn xmlns="urn:brocade.com:mgmt:brocade-vcs">10:00:00:27:F8:FD:
00:00</principal-switch-wwn>
  <co-ordinator-wwn xmlns="urn:brocade.com:mgmt:brocade-vcs">10:00:00:27:F8:FD:
00:00</co-ordinator-wwn>
  <total-nodes-in-cluster xmlns="urn:brocade.com:mgmt:brocade-vcs">2</total-nodes-
in-cluster>
  <nodes-disconnected-from-cluster xmlns="urn:brocade.com:mgmt:brocade-vcs">0</
nodes-disconnected-from-cluster>
  <cluster-generic-status xmlns="urn:brocade.com:mgmt:brocade-vcs">Good</cluster-
generic-status>
  <cluster-specific-status xmlns="urn:brocade.com:mgmt:brocade-vcs">All Nodes
Present in the Cluster</cluster-specific-status>
  <vcs-nodes xmlns="urn:brocade.com:mgmt:brocade-vcs">
    <vcs-node-info>
      <node-num>1</node-num>
      <node-serial-num>CPL2519K0EF</node-serial-num>
      <node-condition>Good</node-condition>
      <node-status>Co-ordinator</node-status>
      <node-vcs-mode>Enabled</node-vcs-mode>
      <node-vcs-id>1</node-vcs-id>
      <node-rbridge-id>1</node-rbridge-id>
      <node-is-principal>true</node-is-principal>
      <co-ordinator>true</co-ordinator>
      <node-switch-mac>00:27:f8:fd:00:00</node-switch-mac>
      <node-switch-wwn>10:00:00:27:F8:FD:00:00</node-switch-wwn>
      <switch-fcf-mac>de:ad:be:ef:de:ad</switch-fcf-mac>
      <node-internal-ip-address>127.1.0.1</node-internal-ip-address>
      <node-public-ip-addresses>
        <node-public-ip-address>10.25.224.17</node-public-ip-address>
      </node-public-ip-addresses>
      <node-public-ipv6-addresses>
        <node-public-ipv6-address>2004:384d::23:24</node-public-ipv6-address>
      </node-public-ipv6-addresses>
      <node-swbd-number>131</node-swbd-number>
      <firmware-version>v6.0.1a_rc1_bld02</firmware-version>
      <node-switchname>sw0</node-switchname>
      <node-switchtype>BR-VDX6740</node-switchtype>
      <node-switch-subtype>2</node-switch-subtype>
      <node-switch-description>Not supported in this platform</node-switch-
description>
      <manufacturer-name>Not supported in this platform</manufacturer-name>
      <node-state>Online</node-state>
      <node-fabric-state>Online</node-fabric-state>
    </vcs-node-info>
  </vcs-nodes>
</rpc-reply>
```

## Parameters

*vcs-cluster-type-info*

Displays the VCS type

*vcs-guid*

Displays the VCS cluster GUID

*virtual-ip-address*  
Displays the cluster virtual IP address

*principal-switch-wwn*  
Displays the VCS Cluster principal switch WWN

*co-ordinator-wwn*  
Displays the VCS cluster coordinator node WWN

*total-nodes-in-cluster*

*nodes-disconnected-from-cluster*  
Displays the number of nodes disconnected from cluster

*cluster-generic-status*  
Displays the cluster generic status

*cluster-specific-status*  
Displays the cluster specific status

*node-num*  
Displays the node number

*node-serial-num*  
Displays the serial number

*node-condition*  
Displays the node condition

*node-status*  
Displays the node status

*node-vcs-mode*  
Displays node's VCS mode

*node-vcs-id*  
Displays the node VCS ID

*node-rbridge-id*  
Displays the node RBridge ID

*node-is-principal*  
Indicates if the node is management cluster principal

*co-ordinator*

*node-switch-mac*  
Displays the node switch MAC address

*node-switch-wwn*  
Displays the node switch WWN

*witch-fcf-mac*  
Displays the node FCF MAC address

*node-internal-ip-address*  
Displays the node internal IP address

*node-public-ip-address*  
Displays the node public IP address

*node-public-ipv6-address*

Displays the node public IPv6 address

*node-swbd-number*

Displays the node SWBD number

*firmware-version*

Displays the node firmware version

*node-switchname*

Displays the node switch name

*node-switchtype*

*node-switch-subtype*

*node-switch-description*

*manufacturer-name*

*node-state*

*node-fabric-state*

Displays the Fabric node state

## show-zoning-enabled-configuration

Returns the currently enabled zoning configuration information.

### Usage

```
<show-zoning-enabled-configuration></show-zoning-enabled-configuration>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="1">
  <enabled-configuration xmlns="urn:brocade.com:mgmt:brocade-zone">
    <cfg-name>cfg1</cfg-name>
    <enabled-zone>
      <zone-name>zone1</zone-name>
      <member-entry>
        <entry-name>10:00:00:00:00:00:01</entry-name>
      </member-entry>
      <member-entry>
        <entry-name>10:00:00:00:00:00:02</entry-name>
      </member-entry>
    </enabled-zone>
    <enabled-zone>
      <zone-name>zone2</zone-name>
      <member-entry>
        <entry-name>10:00:00:00:00:00:03</entry-name>
      </member-entry>
      <member-entry>
        <entry-name>10:00:00:00:00:00:04</entry-name>
      </member-entry>
    </enabled-zone>
    <has-more>false</has-more>
  </enabled-configuration>
</rpc-reply>
```

### Parameters

*cfg-name*

Displays the name of the zone configuration

*zone-name*

Displays the name of a zone to be added to the configuration

*entry-name*

Displays the WWN of the device

## user-session-info

Returns user role information.

### Usage

```
<user-session-info></user-session-info>
```

```
<rpc-reply xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"
xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" message-id="20">
  <user-role xmlns="urn:brocade.com:mgmt:brocade-aaa-ext">admin</user-role>
</rpc-reply>
```

### Parameters

*user-role*

Displays the user role

## vcs-rbridge-config

Retrieves the VCS ID and Rbridge ID in the DUT.

### Usage

```
<nc:rpc xmlns:nc="urn:ietf:params:xml:ns:netconf:base:1.0" nc:message-id="3">  
  <vcs-rbridge-config xmlns="urn:brocade.com:mgmt:brocade-vcs">  
    <vcs-id>50</vcs-id>  
    <rbridge-id>4</rbridge-id>  
  </vcs-rbridge-config>  
</nc:rpc>
```

### Parameters

- vcs-id*  
Specifies the VCS ID
- rbridge-id*  
Specifies the RBridge ID



## vcs-rbridge-context

Sets VCS Fabric mode for a given routing bridge.

### Usage

```
<vcs-rbridge-context xmlns="urn:brocade.com:mgmt:brocade-vcs">  
  <rbridge-id>l4</rbridge-id>  
</vcs-rbridge-context>
```

### Parameters

*rbridge-id*  
Specifies the RBridge ID

vcs-rbridge-context