



## R Commands

---

- [show radius-cfs, on page 5](#)
- [show radius-server, on page 6](#)
- [show radius-server, on page 8](#)
- [show radius-server directed-request, on page 9](#)
- [show radius-server groups, on page 10](#)
- [show radius-server sorted, on page 11](#)
- [show radius-server statistics, on page 12](#)
- [show radius status, on page 14](#)
- [show redundancy status, on page 15](#)
- [show regexp, on page 17](#)
- [show resource, on page 18](#)
- [show rmon, on page 19](#)
- [show role, on page 21](#)
- [show role feature-group, on page 22](#)
- [show role feature, on page 23](#)
- [show rollback log exec, on page 24](#)
- [show rollback status, on page 25](#)
- [show route-map, on page 26](#)
- [show route-map pbr-statistics, on page 27](#)
- [show routing, on page 28](#)
- [show routing-context, on page 31](#)
- [show routing-privilege, on page 32](#)
- [show routing clients, on page 33](#)
- [show routing event-history, on page 35](#)
- [show routing hash, on page 37](#)
- [show routing hidden-nh, on page 40](#)
- [show routing ipv6 clients, on page 41](#)
- [show routing ipv6 event-history, on page 45](#)
- [show routing ipv6 hash, on page 46](#)
- [show routing ipv6 hidden-nh, on page 48](#)
- [show routing ipv6 memory estimate, on page 49](#)
- [show routing ipv6 memory statistics, on page 51](#)
- [show routing ipv6 multicast, on page 53](#)

- [show routing ipv6 multicast clients](#), on page 56
- [show routing ipv6 multicast event-history](#), on page 59
- [show routing ipv6 multicast memory estimate](#), on page 60
- [show routing ipv6 nexthop info](#), on page 62
- [show routing ipv6 nhlfe](#), on page 63
- [show routing ipv6 recursive-next-hop](#), on page 65
- [show routing memory estimate](#), on page 66
- [show routing memory statistics](#), on page 68
- [show routing multicast](#), on page 70
- [show routing multicast clients](#), on page 74
- [show routing multicast event-history](#), on page 77
- [show routing multicast lisp encap](#), on page 78
- [show routing multicast mdt encapsulation](#), on page 79
- [show routing multicast memory estimate](#), on page 80
- [show routing nhlfe](#), on page 82
- [show routing recursive-next-hop](#), on page 84
- [show routing unresolved-next-hop](#), on page 86
- [show routing vxlan-hash peer-ip](#), on page 87
- [show running-config](#), on page 88
- [show running-config aaa](#), on page 89
- [show running-config acllog](#), on page 90
- [show running-config aclmgr](#), on page 91
- [show running-config aclmgr active](#), on page 92
- [show running-config adjmgr](#), on page 93
- [show running-config all](#), on page 94
- [show running-config amt](#), on page 95
- [show running-config arp](#), on page 96
- [show running-config assoc](#), on page 97
- [show running-config bfd](#), on page 98
- [show running-config bgp](#), on page 99
- [show running-config bloggerd](#), on page 100
- [show running-config callhome](#), on page 101
- [show running-config cdp](#), on page 102
- [show running-config cert-enroll](#), on page 103
- [show running-config cfs](#), on page 104
- [show running-config clock\\_manager](#), on page 105
- [show running-config config-profile](#), on page 106
- [show running-config controller](#), on page 107
- [show running-config copp](#), on page 108
- [show running-config dhcp](#), on page 109
- [show running-config diagnostic](#), on page 110
- [show running-config diff](#), on page 111
- [show running-config dot1x](#), on page 112
- [show running-config eem](#), on page 113
- [show running-config eigrp](#), on page 114
- [show running-config eltm](#), on page 115

- [show running-config evb](#), on page 116
- [show running-config exclude](#), on page 117
- [show running-config exclude fabricpath](#), on page 118
- [show running-config exclude fex](#), on page 119
- [show running-config expand-port-profile](#), on page 120
- [show running-config explicit](#), on page 121
- [show running-config fabric forwarding](#), on page 122
- [show running-config fabricpath](#), on page 123
- [show running-config fabricpath domain default](#), on page 124
- [show running-config fabricpath switch-id](#), on page 125
- [show running-config fabricpath topology](#), on page 126
- [show running-config fcoe\\_mgr](#), on page 127
- [show running-config fex](#), on page 128
- [show running-config glbp](#), on page 129
- [show running-config hsrp](#), on page 130
- [show running-config icmpv6](#), on page 131
- [show running-config igmp](#), on page 132
- [show running-config imp](#), on page 133
- [show running-config interface](#), on page 134
- [show running-config interface](#), on page 135
- [show running-config interface defaults](#), on page 136
- [show running-config interface explicit](#), on page 137
- [show running-config ip](#), on page 138
- [show running-config ipqos](#), on page 139
- [show running-config ipqos active](#), on page 140
- [show running-config ipv6](#), on page 141
- [show running-config isis](#), on page 142
- [show running-config l3vm](#), on page 143
- [show running-config ldap](#), on page 144
- [show running-config license](#), on page 145
- [show running-config lisp](#), on page 146
- [show running-config lldp](#), on page 147
- [show running-config macsec](#), on page 148
- [show running-config mmode](#), on page 149
- [show running-config monitor](#), on page 150
- [show running-config mpls ldp](#), on page 151
- [show running-config mpls static](#), on page 152
- [show running-config mpls strip](#), on page 153
- [show running-config mpls traffic-eng](#), on page 154
- [show running-config msdp](#), on page 155
- [show running-config nat](#), on page 156
- [show running-config nbm](#), on page 157
- [show running-config netflow](#), on page 158
- [show running-config ngoam](#), on page 159
- [show running-config ntp](#), on page 160
- [show running-config nv overlay](#), on page 161

- [show running-config openflow](#), on page 162
- [show running-config ospf](#), on page 163
- [show running-config ospfv3](#), on page 164
- [show running-config otv-isis](#), on page 165
- [show running-config otv](#), on page 166
- [show running-config param-list](#), on page 167
- [show running-config pim](#), on page 168
- [show running-config pim6](#), on page 169
- [show running-config port-profile](#), on page 170
- [show running-config port-security](#), on page 171
- [show running-config ptp](#), on page 172
- [show running-config radius](#), on page 173
- [show running-config res\\_mgr](#), on page 174
- [show running-config rip](#), on page 175
- [show running-config routing ip multicast](#), on page 176
- [show running-config routing ipv6 multicast](#), on page 177
- [show running-config rpm](#), on page 178
- [show running-config rsvp](#), on page 179
- [show running-config section](#), on page 180
- [show running-config security](#), on page 181
- [show running-config services](#), on page 182
- [show running-config sflow](#), on page 183
- [show running-config sla responder](#), on page 184
- [show running-config sla sender](#), on page 185
- [show running-config snmp](#), on page 186
- [show running-config spanning-tree](#), on page 187
- [show running-config switch](#), on page 188
- [show running-config tacacs](#), on page 189
- [show running-config track](#), on page 190
- [show running-config udld](#), on page 191
- [show running-config vdc-all](#), on page 192
- [show running-config vdc](#), on page 193
- [show running-config virtual-service](#), on page 194
- [show running-config vlan](#), on page 195
- [show running-config vlan](#), on page 196
- [show running-config vlan](#), on page 197
- [show running-config vlan\\_mgr](#), on page 198
- [show running-config vmtracker](#), on page 199
- [show running-config vpc](#), on page 200
- [show running-config vrf](#), on page 201
- [show running-config vrf default](#), on page 202
- [show running-config vrrp](#), on page 203
- [show running-config vrrpv3](#), on page 204
- [show running-config vshd](#), on page 205
- [show running-config vtp](#), on page 206
- [show running-config wwnm](#), on page 207

# show radius-cfs

```
show radius-cfs [ __readonly__ [ <distr_status> ] [ <session_status> ] [ <session_db> ] [ <merge_status> ] ]
```

## Syntax Description

|                       |                                       |
|-----------------------|---------------------------------------|
| show                  | Show running system information       |
| radius-cfs            | Show radius cfs state                 |
| <i>__readonly__</i>   | (Optional)                            |
| <i>distr_status</i>   | (Optional) radius distribution status |
| <i>session_status</i> | (Optional) current session status     |
| <i>session_db</i>     | (Optional) status of session db       |
| <i>merge_status</i>   | (Optional) radius merge status        |

## Command Mode

- /exec

## show radius-server

```
show radius-server [ __readonly__ [ <global_secretKey> ] { <global_timeout> <retransmissionCount>
<global_deadtime> } [ <global_source_intf> ] [ <global_idle_time> ] { [ <global_testUsername> ] [
<global_testPassword> ] } { <server_count> } [ TABLE_server <server_ip> [ <auth_port> ] [ <acct_port> ]
[ <secretKey> ] [ <timeout> ] [ <retries> ] ] [ { <host0> <auth_port> <acct_port> <shared_key>
<idle_time><test_username> <test_password> } + ] ]
```

### Syntax Description

|                            |   |
|----------------------------|---|
| show                       | Show running system information                                   |
| radius-server              | Show RADIUS configuration information                             |
| <i>__readonly__</i>        | (Optional)  |
| <i>global_secretKey</i>    | (Optional) Global shared secret                                   |
| <i>global_timeout</i>      | (Optional) Global timeout for tacacs                              |
| <i>retransmissionCount</i> | (Optional) Retransmission count when there is no server response  |
| <i>global_deadtime</i>     | (Optional) Global deadtime  |
| <i>global_source_intf</i>  | (Optional) Radius global source interface                         |
| <i>global_idle_time</i>    | (Optional) Radius global idle-time for server monitoring          |
| <i>global_testUsername</i> | (Optional) Username of global test parameters                     |
| <i>global_testPassword</i> | (Optional) Password of global test parameters                     |
| <i>server_count</i>        | (Optional) Total number of radius servers configured              |
| TABLE_server               | (Optional)  |
| <i>server_ip</i>           | (Optional) Ip address of the server                               |
| <i>auth_port</i>           | (Optional) Authentication port used for this server               |
| <i>acct_port</i>           | (Optional) Accounting Port used for this server                   |
| <i>secretKey</i>           | (Optional) Shared secret between the server and the tacacs client |
| <i>timeout</i>             | (Optional) Timeout for this tacacs server                         |
| <i>retries</i>             | (Optional) Retry count for individual servers                     |
| <i>host0</i>               | (Optional) DNS name or IP address                                 |
| <i>auth_port</i>           | (Optional) RADIUS server's port for authentication                |
| <i>acct_port</i>           | (Optional) RADIUS server's port for accounting                    |
| <i>shared_key</i>          | (Optional) RADIUS shared secret                                   |

|                      |  |
|----------------------|--|
| <i>test_password</i> | (Optional) User password in test packets |
|----------------------|--|

**Command Mode**

- /exec

# show radius-server

```
show radius-server { <host0> } [ __readonly__ { <host1> } <auth_port> <acct_port> <shared_key>
<idle_time><test_username> <test_password> ]
```

## Syntax Description

|                      |  |
|----------------------|--|
| show                 | Show running system information                    |
| radius-server        | Show RADIUS configuration information              |
| <i>host0</i>         | DNS name or IP address                             |
| <i>__readonly__</i>  | (Optional)   |
| <i>host1</i>         | (Optional) DNS name or IP address                  |
| <i>auth_port</i>     | (Optional) RADIUS server's port for authentication |
| <i>acct_port</i>     | (Optional) RADIUS server's port for accounting     |
| <i>shared_key</i>    | (Optional) RADIUS shared secret                    |
| <i>test_password</i> | (Optional) User password in test packets           |

## Command Mode

- /exec

# show radius-server directed-request

```
show radius-server directed-request [ __readonly__ { <radius_directedRequest_status> } ]
```

## Syntax Description

|                                      |   |
|--------------------------------------|---|
| show                                 | Show running system information                     |
| radius-server                        | Show RADIUS configuration information               |
| directed-request                     | Show directed server enable configuration           |
| __readonly__                         | (Optional)  |
| <i>radius_directedRequest_status</i> | (Optional) status of radius-server directed request |

## Command Mode

- /exec

## show radius-server groups

```
show radius-server groups [ <s0> ] [ __readonly__ [ <num_of_groups> ] TABLE_group <group_name> [
TABLE_server <server_ip> [ <auth_port> ] [ <acct_port> ] ] [ <dead_time> ] [ <vrf_name> ] [
<source_interface> ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information   |
| radius-server           | Show RADIUS configuration information   |
| groups                  | Show RADIUS server group configuration information  |
| <i>s0</i>               | (Optional) RADIUS server group name   |
| <i>__readonly__</i>     | (Optional)  |
| <i>num_of_groups</i>    | (Optional) number of groups   |
| TABLE_group             | (Optional)  |
| <i>group_name</i>       | (Optional) name of the group  |
| TABLE_server            | (Optional)  |
| <i>server_ip</i>        | (Optional) DNS name or IP address   |
| <i>auth_port</i>        | (Optional) radius server authentication port  |
| <i>acct_port</i>        | (Optional) radius server accounting port  |
| <i>dead_time</i>        | (Optional) Time interval for which the server is marked as dead before sending a test command |
| <i>vrf_name</i>         | (Optional) name of the vrf  |
| <i>source_interface</i> | (Optional) Interface Description  |

### Command Mode

- /exec

## show radius-server sorted

```
show radius-server sorted [ __readonly__ [ <global_secretKey> ] { <global_timeout> <retransmissionCount>
<global_deadtime> } [ <global_source_intf> ] [ <global_idle_time> ] { [ <global_testUsername> ] [
<global_testPassword> ] } { <server_count> } [ TABLE_server <server_ip> [ <auth_port> ] [ <acct_port> ]
[ <secretKey> ] [ <timeout> ] [ <retries> ] ] ]
```

### Syntax Description

|                            |   |
|----------------------------|---|
| show                       | Show running system information                                   |
| radius-server              | Show RADIUS configuration information                             |
| sorted                     | Show RADIUS servers sorted by name                                |
| <i>__readonly__</i>        | (Optional)  |
| <i>global_secretKey</i>    | (Optional) Global shared secret                                   |
| <i>global_timeout</i>      | (Optional) Global timeout for tacacs                              |
| <i>retransmissionCount</i> | (Optional) Retransmission count when there is no server response  |
| <i>global_deadtime</i>     | (Optional) Global deadtime  |
| <i>global_source_intf</i>  | (Optional) Radius global source interface                         |
| <i>global_idle_time</i>    | (Optional) Radius global idle-time for server monitoring          |
| <i>global_testUsername</i> | (Optional) Username of global test parameters                     |
| <i>global_testPassword</i> | (Optional) Password of global test parameters                     |
| <i>server_count</i>        | (Optional) Total number of radius servers configured              |
| TABLE_server               | (Optional)  |
| <i>server_ip</i>           | (Optional) Ip address of the server                               |
| <i>auth_port</i>           | (Optional) Authentication port used for this server               |
| <i>acct_port</i>           | (Optional) Accounting Port used for this server                   |
| <i>secretKey</i>           | (Optional) Shared secret between the server and the tacacs client |
| <i>timeout</i>             | (Optional) Timeout for this tacacs server                         |
| <i>retries</i>             | (Optional) Retry count for individual servers                     |

### Command Mode

- /exec

## show radius-server statistics

```
show radius-server statistics <host0> [ __readonly__ { <server_state> [ <clock_time> { monitoring_statistics
<time_in_pstate> <ndead> <tt_in_dstate> } ] } { auth_statistics <auth_failed_transactions>
<auth_succ_transactions> <auth_req_sent> <auth_req_timedout> <auth_resp_no_match>
<auth_resp_not_processed> <auth_resp_error> } { acct_statistics <acct_failed_transactions>
<acct_succ_transactions> <acct_req_sent> <acct_req_timedout> <acct_resp_no_match>
<acct_resp_not_processed> <acct_resp_error> } } ]
```

### Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information                                   |
| radius-server                   | Show RADIUS configuration information                             |
| statistics                      | Show RADIUS statistics  |
| <i>host0</i>                    | DNS name or IP address  |
| <i>__readonly__</i>             | (Optional)  |
| <i>server_state</i>             | (Optional) Show state of server                                   |
| <i>clock_time</i>               | (Optional) Show clock time in terms of hours, minutes and seconds |
| <i>monitoring_statistics</i>    | (Optional) Monitoring Statistics                                  |
| <i>time_in_pstate</i>           | (Optional) Time in previous state                                 |
| <i>ndead</i>                    | (Optional) Number of times dead                                   |
| <i>tt_in_dstate</i>             | (Optional) Total time in dead state                               |
| <i>auth_statistics</i>          | (Optional) Authentication Statistics                              |
| <i>acct_statistics</i>          | (Optional) Accounting Statistics                                  |
| <i>auth_failed_transactions</i> | (Optional) Authentication: Failed transactions                    |
| <i>auth_succ_transactions</i>   | (Optional) Authentication: Successful transactions                |
| <i>auth_req_sent</i>            | (Optional) Authentication: Requests sent                          |
| <i>auth_req_timedout</i>        | (Optional) Authentication: Requests timedout                      |
| <i>auth_resp_no_match</i>       | (Optional) Authentication: Responses with no matching requests    |
| <i>auth_resp_not_processed</i>  | (Optional) Authentication: Responses not processed                |
| <i>auth_resp_error</i>          | (Optional) Authentication: Responses containing errors            |
| <i>acct_failed_transactions</i> | (Optional) Accounting: Failed transactions                        |
| <i>acct_succ_transactions</i>   | (Optional) Accounting: Successful transactions                    |

|                                |  |
|--------------------------------|--|
| <i>acct_req_sent</i>           | (Optional) Accounting: Requests sent                       |
| <i>acct_req_timeout</i>        | (Optional) Accounting: Requests timeout                    |
| <i>acct_resp_no_match</i>      | (Optional) Accounting: Responses with no matching requests |
| <i>acct_resp_not_processed</i> | (Optional) Accounting: Responses not processed             |
| <i>acct_resp_error</i>         | (Optional) Accounting: Responses containing errors         |

**Command Mode**

- /exec

# show radius status

```
show radius status [ __readonly__ [ <distr_status> ] [ <session_status> ] [ <session_owner> ] [ <session_db> ] [ <last_operation> ] [ <last_operation_status> ] [ <fail_code> ] ]
```

## Syntax Description

|                              |  |
|------------------------------|--|
| show                         | Show running system information                      |
| radius                       | Show RADIUS Information                              |
| status                       | Show RADIUS cfs distribution status                  |
| <i>__readonly__</i>          | (Optional)   |
| <i>distr_status</i>          | (Optional) radius distribution status                |
| <i>session_status</i>        | (Optional) current session status                    |
| <i>session_owner</i>         | (Optional) owner of the current distribution session |
| <i>session_db</i>            | (Optional) status of session db                      |
| <i>last_operation</i>        | (Optional) last_operation                            |
| <i>last_operation_status</i> | (Optional) status of the last operation              |
| <i>fail_code</i>             | (Optional) reason for the failure of last operation  |

## Command Mode

- /exec

## show redundancy status

```
show redundancy status [ __readonly__ <rmode_admin> <rmode_opr> <this_sup> <this_sup_rd_st>
<this_sup_sup_st> <this_sup_int_st> <oth_sup> <oth_sup_rd_st> <oth_sup_sup_st> <oth_sup_int_st>
<sys_strt_time> <sys_uptm_days> <sys_uptm_hrs> <sys_uptm_mins> <sys_uptm_secs> <kern_uptm_days>
<kern_uptm_hrs> <kern_uptm_mins> <kern_uptm_secs> <asup_uptm_days> <asup_uptm_hrs>
<asup_uptm_mins> <asup_uptm_secs> ]
```

### Syntax Description

|                        |                               |
|------------------------|-------------------------------|
| show                   |                               |
| redundancy             | Show system redundancy status |
| status                 | Current redundancy status     |
| <i>__readonly__</i>    | (Optional)                    |
| <i>rmode_admin</i>     | (Optional)                    |
| <i>rmode_opr</i>       | (Optional)                    |
| <i>this_sup</i>        | (Optional)                    |
| <i>this_sup_rd_st</i>  | (Optional)                    |
| <i>this_sup_sup_st</i> | (Optional)                    |
| <i>this_sup_int_st</i> | (Optional)                    |
| <i>oth_sup</i>         | (Optional)                    |
| <i>oth_sup_rd_st</i>   | (Optional)                    |
| <i>oth_sup_sup_st</i>  | (Optional)                    |
| <i>oth_sup_int_st</i>  | (Optional)                    |
| <i>sys_strt_time</i>   | (Optional)                    |
| <i>sys_uptm_days</i>   | (Optional)                    |
| <i>sys_uptm_hrs</i>    | (Optional)                    |
| <i>sys_uptm_mins</i>   | (Optional)                    |
| <i>sys_uptm_secs</i>   | (Optional)                    |
| <i>kern_uptm_days</i>  | (Optional)                    |
| <i>kern_uptm_hrs</i>   | (Optional)                    |
| <i>kern_uptm_mins</i>  | (Optional)                    |
| <i>kern_uptm_secs</i>  | (Optional)                    |

|                       |            |
|-----------------------|------------|
| <i>asup_uptm_days</i> | (Optional) |
| <i>asup_uptm_hrs</i>  | (Optional) |
| <i>asup_uptm_mins</i> | (Optional) |
| <i>asup_uptm_secs</i> | (Optional) |

**Command Mode**

- /exec

# show regexp

```
show { ip mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | ip bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] all | ip bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ ipv4 { unicast | multicast } ] } regexp <regexp-str> [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                                 |
| ip                    | Display IP information  |
| bgp                   | Display BGP status and configuration                            |
| mbgp                  | Display MBGP status and configuration                           |
| vrf                   | (Optional) Virtual Router Context                               |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                       |
| ipv4                  | (Optional) Display BGP information for IPv4 address family      |
| unicast               | (Optional) Display BGP information for unicast address family   |
| multicast             | (Optional) Display BGP information for multicast address family |
| all                   | Display BGP information for all address families                |
| regexp                | Display routes matching the AS path regular expression          |
| <i>regexp-str</i>     | Regular expression to match the AS paths                        |

## Command Mode

- /exec

# show resource

```
show resource [ <res-mgr-res-known-name> ] [ hidden-too | with-flags ] [ __readonly__ {
TABLE_vdc_resource_local <res_name> <min> <max> <used> <unused> <free> } ]
```

## Syntax Description

|                               |  |
|-------------------------------|--|
| show                          | Show running system information                                  |
| resource                      | Show resource configuration for VDC                              |
| <i>res-mgr-res-known-name</i> | (Optional) Resource name   |
| hidden-too                    | (Optional) Also show hidden resources                            |
| with-flags                    | (Optional) Also show resource flags                              |
| __readonly__                  | (Optional) Read Only   |
| TABLE_vdc_resource_local      | (Optional)   |
| <i>res_name</i>               | (Optional) Resource Name   |
| <i>min</i>                    | (Optional) Resource min configuration                            |
| <i>max</i>                    | (Optional) Resource max configuration                            |
| <i>used</i>                   | (Optional) Resource current usage for this VDC                   |
| <i>unused</i>                 | (Optional) Resource reserved for this VDC but currently not used |
| <i>free</i>                   | (Optional) Resource current free for this VDC                    |

## Command Mode

- /exec

## show rmon

```
show rmon { alarms | events | hcalarms | info | logs } [ __readonly__ [ TABLE_rmon_alarm { <alarm-str>
<ascii-buf-str> <samp-type-str> <ris-trshod-str> <fall-trshod-str> <start-enable-str> } ] [ TABLE_rmon_event
{ <ev-alararm-str> <ev-desc-str> <ev-fir-cause> <last-fired> } ] [ TABLE_rmon_hcala { <hc-alararm-str>
<hc-ascii-buf-str> <hc-sam-ty-str> <hc-ris-thresh-str> <hc-fal-thresh-str> <start-alm-str> <fail-attem-str> }
] [ TABLE_rmon_info { <max-32-64-ala-str> <max-conf-32-ala-str> <max-conf-64-ala-str> } ] [
TABLE_rmon_log { <event-id-str> <rmon-pch> [ <log-buff-str> ] <log-oid> } ] ]
```

### Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information                |
| rmon                    | Display RMON statistics                        |
| alarms                  | Display the RMON alarm table                   |
| events                  | Display the RMON event table                   |
| hcalarms                | Display the RMON HC(High Capacity) Alarm table |
| info                    | Display the RMON info                          |
| logs                    | Display the RMON event log table               |
| __readonly__            | (Optional)                                     |
| TABLE_rmon_alarm        | (Optional)                                     |
| <i>alarm-str</i>        | (Optional)                                     |
| <i>ascii-buf-str</i>    | (Optional)                                     |
| <i>samp-type-str</i>    | (Optional)                                     |
| <i>ris-trshod-str</i>   | (Optional)                                     |
| <i>fall-trshod-str</i>  | (Optional)                                     |
| <i>start-enable-str</i> | (Optional)                                     |
| TABLE_rmon_event        | (Optional)                                     |
| <i>ev-alararm-str</i>   | (Optional)                                     |
| <i>ev-desc-str</i>      | (Optional)                                     |
| <i>ev-fir-cause</i>     | (Optional)                                     |
| <i>last-fired</i>       | (Optional)                                     |
| TABLE_rmon_hcala        | (Optional)                                     |
| <i>hc-alararm-str</i>   | (Optional)                                     |

|                            |            |
|----------------------------|------------|
| <i>hc-ascii-buf-str</i>    | (Optional) |
| <i>hc-sam-ty-str</i>       | (Optional) |
| <i>hc-ris-thresh-str</i>   | (Optional) |
| <i>hc-fal-thresh-str</i>   | (Optional) |
| <i>start-alm-str</i>       | (Optional) |
| <i>fail-attem-str</i>      | (Optional) |
| TABLE_rmon_info            | (Optional) |
| <i>max-32-64-ala-str</i>   | (Optional) |
| <i>max-conf-32-ala-str</i> | (Optional) |
| <i>max-conf-64-ala-str</i> | (Optional) |
| TABLE_rmon_log             | (Optional) |
| <i>event-id-str</i>        | (Optional) |
| <i>rmon-pch</i>            | (Optional) |
| <i>log-buff-str</i>        | (Optional) |
| <i>log-oid</i>             | (Optional) |

**Command Mode**

- /exec

# show role

```
show role [ name <arg3> ] [ __readonly__ TABLE_role <role_name> <role_description> [ <attribute_scope> ] [ <permit_vsan> ] [ <permit_vlan> ] [ <permit_interface> ] [ <permit_vrf> ] TABLE_rule <rule_num> <rule_action> { <rule_permission> | <rule_permission_mds> } [ <rule_featuretype> ] [ <rule_entity> ] ]
```

## Syntax Description

|                            |                                 |
|----------------------------|---------------------------------|
| show                       | Show running system information |
| role                       | Show role configuration         |
| name                       | (Optional) Enter the role name  |
| <i>arg3</i>                | (Optional) Enter the role name  |
| <i>__readonly__</i>        | (Optional)                      |
| TABLE_role                 | (Optional)                      |
| <i>role_name</i>           | (Optional)                      |
| <i>role_description</i>    | (Optional)                      |
| <i>attribute_scope</i>     | (Optional)                      |
| <i>permit_vsan</i>         | (Optional)                      |
| <i>permit_vlan</i>         | (Optional)                      |
| <i>permit_interface</i>    | (Optional)                      |
| <i>permit_vrf</i>          | (Optional)                      |
| TABLE_rule                 | (Optional)                      |
| <i>rule_num</i>            | (Optional)                      |
| <i>rule_action</i>         | (Optional)                      |
| <i>rule_permission</i>     | (Optional)                      |
| <i>rule_permission_mds</i> | (Optional)                      |
| <i>rule_featuretype</i>    | (Optional)                      |
| <i>rule_entity</i>         | (Optional)                      |

## Command Mode

- /exec

# show role feature-group

```
show role feature-group [ name <arg4> ] [ detail ] [ __readonly__ TABLE_role_feature_group
<feature_group_name> TABLE_role_feature <feature_name> [ TABLE_role_feature_rule <feature_rule> ]
]
```

## Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information                         |
| role                      | Show role configuration                                 |
| feature-group             | Role feature group                                      |
| name                      | (Optional) Enter the feature-group name                 |
| <i>arg4</i>               | (Optional) Feature-group name                           |
| detail                    | (Optional) Detailed information including feature rules |
| <i>__readonly__</i>       | (Optional)  |
| TABLE_role_feature_group  | (Optional)  |
| <i>feature_group_name</i> | (Optional)  |
| TABLE_role_feature        | (Optional)  |
| <i>feature_name</i>       | (Optional)  |
| TABLE_role_feature_rule   | (Optional)  |
| <i>feature_rule</i>       | (Optional)  |

## Command Mode

- /exec

# show role feature

```
show role feature [ name <arg5> | detail ] [ __readonly__ TABLE_role_feature <feature_name> [
TABLE_role_feature_rule <feature_rule> ] ]
```

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information                         |
| role                    | Show role configuration                                 |
| feature                 | Role feature  |
| name                    | (Optional) Enter the feature name                       |
| <i>arg5</i>             | (Optional) Feature name                                 |
| detail                  | (Optional) Detailed information including feature rules |
| <i>__readonly__</i>     | (Optional)  |
| TABLE_role_feature      | (Optional)  |
| <i>feature_name</i>     | (Optional)  |
| TABLE_role_feature_rule | (Optional)  |
| <i>feature_rule</i>     | (Optional)  |

## Command Mode

- /exec

## show rollback log exec

```
show rollback log { exec | verify } [ __readonly__ [ <log_entry> + ] ]
```

### Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information        |
| rollback            | Show rollback                          |
| log                 | show rollback log                      |
| exec                | show rollback execution log            |
| verify              | show rollback verify log               |
| <i>__readonly__</i> | (Optional) Read only                   |
| <i>log_entry</i>    | (Optional) log entry from rollback log |

### Command Mode

- /exec

# show rollback status

```
show rollback status [ __readonly__ <last_operation> <rollback_type> <name> <start_time> <end_time>
<operation_status> ]
```

## Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information        |
| rollback                | show rollback                          |
| status                  | show status of last rollback operation |
| <i>__readonly__</i>     | (Optional) Read only                   |
| <i>last_operation</i>   | (Optional) last operation              |
| <i>rollback_type</i>    | (Optional) rollback type               |
| <i>name</i>             | (Optional) name                        |
| <i>start_time</i>       | (Optional) start time                  |
| <i>end_time</i>         | (Optional) end time                    |
| <i>operation_status</i> | (Optional) operation status            |

## Command Mode

- /exec

# show route-map

```
show route-map [ <route-map-name> | <route-map-cfg-name> ] [ __readonly__ TABLE_rmap <name> <seq>
<action> [ <descript> ] [ <continue> ] [ { TABLE_rmap_match <match_type> <match_stmt> } ] [ {
TABLE_rmap_set <set_type> <set_stmt> } ] ]
```

## Syntax Description

|                           |                                 |
|---------------------------|---------------------------------|
| show                      | Show running system information |
| route-map                 | Route-map information           |
| <i>route-map-name</i>     | (Optional) Route-map name       |
| <i>route-map-cfg-name</i> | (Optional) Known route-map name |
| <i>__readonly__</i>       | (Optional)                      |
| TABLE_rmap                | (Optional)                      |
| TABLE_rmap_match          | (Optional)                      |
| TABLE_rmap_set            | (Optional)                      |
| <i>name</i>               | (Optional)                      |
| <i>seq</i>                | (Optional)                      |
| <i>action</i>             | (Optional)                      |
| <i>descript</i>           | (Optional)                      |
| <i>continue</i>           | (Optional)                      |
| <i>match_type</i>         | (Optional)                      |
| <i>match_stmt</i>         | (Optional)                      |
| <i>set_type</i>           | (Optional)                      |
| <i>set_stmt</i>           | (Optional)                      |

## Command Mode

- /exec

## show route-map pbr-statistics

```
show route-map { <pbr_rmap_name> | <pbr_rmap_cfg_name> } pbr-statistics [ __readonly__ <tag> <action>
<seq> <pbr_pkt_count> <dflt_rtg_pkt_count> ]
```

### Syntax Description

|                           |                                 |
|---------------------------|---------------------------------|
| show                      | Show running system information |
| route-map                 | Route-map information           |
| <i>pbr_rmap_name</i>      | Route-map name                  |
| <i>pbr_rmap_cfg_name</i>  | Known route-map name            |
| pbr-statistics            | PBR statistics                  |
| <i>__readonly__</i>       | (Optional)                      |
| <i>tag</i>                | (Optional)                      |
| <i>action</i>             | (Optional)                      |
| <i>seq</i>                | (Optional)                      |
| <i>pbr_pkt_count</i>      | (Optional)                      |
| <i>dflt_rtg_pkt_count</i> | (Optional)                      |

### Command Mode

- /exec

## show routing

```
show { routing | ip route } [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [
topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ip-addr> | { <ip-prefix> [ { longer-prefixes | shorter-prefixes
} ] } ] [ { <protocol> [ all ] } | { next-hop <next-hop> | next-hop-v6 <next-hop-v6> } | { interface <interface>
} | { updated { [ since <stime> ] [ until <utime> ] } } ] + [ summary | detail ] [ vrf { <vrf-name> |
<vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> [
TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path [ <ipnexthop> ] [ <ifname>
] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <unres> ] [ <hidden> ] [
<stale-label> ] [ <ubest> ] [ <mbest> ] ] [ TABLE_summary <routes> <paths> [ <multicast_paths> ] [
TABLE_unicast [ <clientname> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE_multicast [ <clientname>
] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE_route_count [ <mask_len> ] [ <count> ] ] ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                                    |
| routing               | Display routing information  |
| ip                    | Display IP information   |
| route                 | Display routing information  |
| vrf                   | (Optional) Display per-VRF information                             |
| <i>vrf-name</i>       | (Optional) VRF name  |
| <i>vrf-known-name</i> | (Optional) Known VRF name  |
| vrf-all               | (Optional) Display information for all VRFs                        |
| ipv4                  | (Optional) Display IP information                                  |
| unicast               | (Optional) Display unicast information                             |
| topology              | (Optional) Display per-topology information                        |
| <i>topology-name</i>  | (Optional) topology name   |
| l3vm-info             | (Optional) Display corresponding L3VM information                  |
| rpf                   | (Optional) Display RPF information for multicast source            |
| <i>ip-addr</i>        | (Optional) Display single route longest match lookup               |
| <i>ip-prefix</i>      | (Optional) Display single exact match route                        |
| longer-prefixes       | (Optional) Display matching routes with mask-lengths $\geq$ prefix |
| shorter-prefixes      | (Optional) Display matching routes with mask-lengths $\leq$ prefix |
| <i>protocol</i>       | (Optional) Display routes for protocol (or route type)             |
| all                   | (Optional) Display routes for protocol for backup next-hops too    |

|                     |   |
|---------------------|---|
| next-hop            | (Optional) Display routes with this next-hop only           |
| <i>next-hop</i>     | (Optional) Next hop address                                 |
| next-hop-v6         | (Optional) Display routes with this V6 next-hop only        |
| interface           | (Optional) Display routes with this output interface only   |
| <i>interface</i>    | (Optional) Interface Name                                   |
| updated             | (Optional) Display routes filtered by last updated time     |
| since               | (Optional) Display those routes updated since this time     |
| <i>stime</i>        | (Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS] |
| until               | (Optional) Display those routes updated until this time     |
| <i>utime</i>        | (Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS] |
| summary             | (Optional) Display route counts                             |
| detail              | (Optional) Display routes in full detail                    |
| __readonly__        | (Optional)  |
| TABLE_vrf           | (Optional)  |
| <i>vrf-name-out</i> | (Optional)  |
| TABLE_addrf         | (Optional)  |
| <i>addrf</i>        | (Optional)  |
| TABLE_prefix        | (Optional)  |
| <i>ipprefix</i>     | (Optional)  |
| <i>ucast-nhops</i>  | (Optional)  |
| <i>mcast-nhops</i>  | (Optional)  |
| <i>attached</i>     | (Optional)  |
| TABLE_path          | (Optional)  |
| <i>ipnexthop</i>    | (Optional)  |
| <i>ifname</i>       | (Optional)  |
| <i>uptime</i>       | (Optional)  |
| <i>pref</i>         | (Optional)  |
| <i>metric</i>       | (Optional)  |
| <i>clientname</i>   | (Optional)  |

|                        |            |
|------------------------|------------|
| <i>type</i>            | (Optional) |
| <i>tag</i>             | (Optional) |
| <i>stale</i>           | (Optional) |
| <i>unres</i>           | (Optional) |
| <i>hidden</i>          | (Optional) |
| <i>stale-label</i>     | (Optional) |
| <i>ubest</i>           | (Optional) |
| <i>mbest</i>           | (Optional) |
| TABLE_summary          | (Optional) |
| <i>routes</i>          | (Optional) |
| <i>paths</i>           | (Optional) |
| <i>multicast_paths</i> | (Optional) |
| TABLE_unicast          | (Optional) |
| <i>clientname</i>      | (Optional) |
| <i>best-paths</i>      | (Optional) |
| <i>backup-paths</i>    | (Optional) |
| TABLE_multicast        | (Optional) |
| <i>clientname</i>      | (Optional) |
| <i>best-paths</i>      | (Optional) |
| <i>backup-paths</i>    | (Optional) |
| TABLE_route_count      | (Optional) |
| <i>mask_len</i>        | (Optional) |
| <i>count</i>           | (Optional) |

**Command Mode**

- /exec

# show routing-context

show routing-context

## Syntax Description

|                 |                                     |
|-----------------|-------------------------------------|
| show            | Show running system information     |
| routing-context | Display the current routing context |

## Command Mode

- /exec

# show routing-privilege

show routing-privilege

## Syntax Description

|                   |                                     |
|-------------------|-------------------------------------|
| show              | Show running system information     |
| routing-privilege | Display the current privilege level |

## Command Mode

- /exec

## show routing clients

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] clients [ <client> | <protocol> ] [ __readonly__ { TABLE_client <client_name>
<pib_index> <epid> [ <mts_sap> ] [ <mts_sap_str> ] <mru_cache_hits> <mru_cache_misses> <pib_stale_time>
<pss_created> [ <bad_l3vm_table_refcount> ] [ <pib_stale_timer> ] [ { TABLE_nib_node
<uribtibtype_contextname> [ <all_igp> ] [ <self> ] [ <all> ] [ <unib_notify_mask> ] <routes> <rnhs> <labels>
[ <convg_req_mask> ] [ <convg_send_mask> ] [ <utib_state> ] [ <pending_timer> ] [ <urib_state_invalid>
} ] [ { TABLE_msgs_rcvd <urib_mtype_str> <upib_rcvd> } ] [ { TABLE_msgs_sent <urib_mtype_str>
<upib_sent> } ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                   |
| routing               | Display routing information                       |
| vrf                   | (Optional) Display per-VRF information            |
| <i>vrf-name</i>       | (Optional) VRF name                               |
| <i>vrf-known-name</i> | (Optional) Known VRF name                         |
| vrf-all               | (Optional) Display information for all VRFs       |
| topology              | (Optional) Display per-topology information       |
| <i>topology-name</i>  | (Optional) topology name                          |
| ip                    | (Optional) Display IP information                 |
| ipv4                  | (Optional) Display IP information                 |
| unicast               | (Optional) Display unicast information            |
| clients               | Display urib client information                   |
| <i>client</i>         | (Optional) Display single urib client information |
| <i>protocol</i>       | (Optional) Display single urib client information |
| __readonly__          | (Optional)  |
| TABLE_client          | (Optional)  |
| <i>client_name</i>    | (Optional)  |
| <i>pib_index</i>      | (Optional)  |
| <i>epid</i>           | (Optional)  |
| <i>mts_sap</i>        | (Optional)  |
| <i>mts_sap_str</i>    | (Optional)  |

|                                |            |
|--------------------------------|------------|
| <i>mru_cache_hits</i>          | (Optional) |
| <i>mru_cache_misses</i>        | (Optional) |
| <i>pib_stale_time</i>          | (Optional) |
| <i>pss_created</i>             | (Optional) |
| <i>bad_l3vm_table_refcount</i> | (Optional) |
| <i>pib_stale_timer</i>         | (Optional) |
| TABLE_nib_node                 | (Optional) |
| <i>uribtibtype_contextname</i> | (Optional) |
| <i>all_igp</i>                 | (Optional) |
| <i>self</i>                    | (Optional) |
| <i>all</i>                     | (Optional) |
| <i>unib_notify_mask</i>        | (Optional) |
| <i>routes</i>                  | (Optional) |
| <i>rnhs</i>                    | (Optional) |
| <i>labels</i>                  | (Optional) |
| <i>convg_req_mask</i>          | (Optional) |
| <i>convg_send_mask</i>         | (Optional) |
| <i>utib_state</i>              | (Optional) |
| <i>pending_timer</i>           | (Optional) |
| <i>urib_state_invalid</i>      | (Optional) |
| TABLE_msgs_rcvd                | (Optional) |
| <i>urib_mtype_str</i>          | (Optional) |
| <i>upib_rcvd</i>               | (Optional) |
| TABLE_msgs_sent                | (Optional) |
| <i>urib_mtype_str</i>          | (Optional) |
| <i>upib_sent</i>               | (Optional) |

**Command Mode**

- /exec

## show routing event-history

```
show routing [ ip | ipv4 ] [ unicast ] [ internal ] event-history { statistics | msgs | { { add-route | cli | delete-route
| detail | errors | general | ha | loop-detection | modify-route | notifications | recursive-next-hop | summary |
ufdm | ufdm-detail | ufdm-summary } [ filter [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ client
{ <client> | <protocol> } ] [ prefix-list <pfxlist-name> ] ] } }
```

### Syntax Description

|                    |  |
|--------------------|--|
| show               | Show running system information        |
| routing            | Display routing information            |
| ip                 | (Optional) Display IP information      |
| ipv4               | (Optional) Display IP information      |
| unicast            | (Optional) Display unicast information |
| internal           | (Optional) Commands for internal use   |
| event-history      | Show routing event log                 |
| statistics         | Show routing event log Statistics      |
| msgs               | Show routing message event log         |
| add-route          | Add route                              |
| cli                | CLI                                    |
| delete-route       | Delete route                           |
| detail             | Detail                                 |
| errors             | Errors                                 |
| general            | General                                |
| ha                 | HA                                     |
| loop-detection     | Loop detection                         |
| modify-route       | Modify route                           |
| notifications      | Notification                           |
| recursive-next-hop | Recursive next hop                     |
| summary            | Summary                                |
| ufdm               | UFDM                                   |
| ufdm-detail        | UFDM Detail                            |

|                             |   |
|-----------------------------|---|
| <code>ufdm-summary</code>   | UFDM Summary                            |
| <code>filter</code>         | (Optional) Filter event log             |
| <code>vrf</code>            | (Optional) Filter VRF                   |
| <code>vrf-name</code>       | (Optional) VRF name                     |
| <code>vrf-known-name</code> | (Optional) Known VRF name               |
| <code>vrf-all</code>        | (Optional) Filter for all VRFs          |
| <code>client</code>         | (Optional) Filter by client             |
| <code>client</code>         | (Optional) Filter by single urib client |
| <code>protocol</code>       | (Optional) Filter by single urib client |
| <code>prefix-list</code>    | (Optional) Filter by IPv4 prefix-list   |
| <code>pfxlist-name</code>   | (Optional) IPv4 prefix list name        |

**Command Mode**

- /exec

## show routing hash

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] hash <source> <dest> [ ip-proto <ip-proto> ] [ <src-port> <dest-port> ] [ in-interface
<in-interface> ] [ module <module-id> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__
TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> TABLE_hashpath <mcast> <hashpath> <hash-val>
TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path <ubest> <mbest>
<ipnexthop> <ifname> <pref> <metric> <uptime> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <unres> ]
[ <hidden> ] [ <stale-label> ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information   |
| routing               | Display routing information   |
| vrf                   | (Optional) Display per-VRF information  |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name   |
| vrf-all               | (Optional) Display information for all VRFs                                     |
| ip                    | (Optional) Display IP information   |
| ipv4                  | (Optional) Display IP information   |
| unicast               | (Optional) Display unicast information  |
| topology              | (Optional) Display per-topology information                                     |
| <i>topology-name</i>  | (Optional) topology name  |
| hash                  | Display load-balancing hash information   |
| <i>source</i>         | Source IPv4 address of unicast flow or group address for multicast flow         |
| <i>dest</i>           | Destination IPv4 address of unicast flow or source address for multicast flow   |
| <i>src-port</i>       | (Optional) Source-port  |
| <i>dest-port</i>      | (Optional) Destination-port   |
| in-interface          | (Optional) Incoming Interface for Packet.Option valid on Tomahawk platform only |
| <i>in-interface</i>   | (Optional) Interface Name   |
| ip-proto              | (Optional) IP Protocol information for the packet                               |
| <i>ip-proto</i>       | (Optional) IP Protocol information for the packet                               |
| module                | (Optional) Module   |

|                     |                   |
|---------------------|-------------------|
| <i>module-id</i>    | (Optional) Module |
| <i>__readonly__</i> | (Optional)        |
| TABLE_vrf           | (Optional)        |
| <i>vrf-name-out</i> | (Optional)        |
| TABLE_addrf         | (Optional)        |
| <i>addrf</i>        | (Optional)        |
| TABLE_hashpath      | (Optional)        |
| <i>mcast</i>        | (Optional)        |
| <i>hashpath</i>     | (Optional)        |
| <i>hash-val</i>     | (Optional)        |
| TABLE_prefix        | (Optional)        |
| <i>ipprefix</i>     | (Optional)        |
| <i>ucast-nhops</i>  | (Optional)        |
| <i>mcast-nhops</i>  | (Optional)        |
| <i>attached</i>     | (Optional)        |
| TABLE_path          | (Optional)        |
| <i>ubest</i>        | (Optional)        |
| <i>mbest</i>        | (Optional)        |
| <i>ipnethop</i>     | (Optional)        |
| <i>ifname</i>       | (Optional)        |
| <i>pref</i>         | (Optional)        |
| <i>metric</i>       | (Optional)        |
| <i>uptime</i>       | (Optional)        |
| <i>clientname</i>   | (Optional)        |
| <i>type</i>         | (Optional)        |
| <i>tag</i>          | (Optional)        |
| <i>stale</i>        | (Optional)        |
| <i>unres</i>        | (Optional)        |
| <i>hidden</i>       | (Optional)        |

|                    |            |
|--------------------|------------|
| <i>stale-label</i> | (Optional) |
|--------------------|------------|

**Command Mode**

- /exec

## show routing hidden-nh

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] hidden-nh [ __readonly__ <uribtibtype_contextname> [ <utibtibtype_topologyname> ]
{ TABLE_hidden_nh <hidden_nh_uhn_prefix> <hidden_nh_uhn_mask_len> <pib> <rnh> <rnh_mask_len>
} ]
```

### Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information             |
| routing                         | Display routing information                 |
| vrf                             | (Optional) Display per-VRF information      |
| <i>vrf-name</i>                 | (Optional) VRF name                         |
| <i>vrf-known-name</i>           | (Optional) Known VRF name                   |
| vrf-all                         | (Optional) Display information for all VRFs |
| ip                              | (Optional) Display IP information           |
| ipv4                            | (Optional) Display IP information           |
| unicast                         | (Optional) Display unicast information      |
| topology                        | (Optional) Display per-topology information |
| <i>topology-name</i>            | (Optional) topology name                    |
| hidden-nh                       | Display hidden next-hop information         |
| <i>__readonly__</i>             | (Optional)                                  |
| <i>uribtibtype_contextname</i>  | (Optional)                                  |
| <i>utibtibtype_topologyname</i> | (Optional)                                  |
| TABLE_hidden_nh                 | (Optional)                                  |
| <i>hidden_nh_uhn_prefix</i>     | (Optional)                                  |
| <i>hidden_nh_uhn_mask_len</i>   | (Optional)                                  |
| <i>pib</i>                      | (Optional)                                  |
| <i>rnh</i>                      | (Optional)                                  |
| <i>rnh_mask_len</i>             | (Optional)                                  |

### Command Mode

- /exec

## show routing ipv6 clients

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ]
clients [ <client> | <ipv6-protocol> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__
{ TABLE_client <client_name> <pib_index> <pib_state> <pib_id> <multicast_or_unicast_pib>
<mru_cache_hits> <mru_cache_misses> [ <mts_sap> ] [ <mts_sap_str> ] [ <bad_l3vm_table_refcount> ]
<pib_stale_time> [ { TABLE_nib_node <u6ribtibtype_contextname> <routes> <rnhs> [ {
TABLE_notiffee_mask [ <u6pib_name> ] [ <index> ] } ] [ <u6tib_state> ] [ <pending_timer> ] [
<u6rib_state_invalid> ] [ <u6nib_notifier_all> ] [ { TABLE_notify_rcd <notify_rcd_name>
<notify_rcd_handle> [ <notifier_pib_u6pib_index> } ] ] [ { TABLE_notiffee_nib <notiffee_pib_u6pib_name>
<u6nib_notify_handle> } ] ] [ { TABLE_ready_client_event_queue <queue_name><queue_count> [ {
TABLE_client_event <event> <use_buf> <sched> <resend> <buf> [ <state> } ] } ] [ {
TABLE_buffer_rqst_client_event_queue <queue_name><queue_count> [ { TABLE_client_event <event>
<use_buf> <sched> <resend> <buf> [ <state> } ] } ] <update_ack_queue_count> [ { TABLE_update_ack
<update_ack> <update_ack_data> <update_ack_type> <update_ack_xid> } ] [ {
TABLE_route_buffer_used_queue <queue_name> <queue_count> [ { TABLE_clt_buf
<clt_buf><clt_buf_count><clt_buf_xid> } ] } ] [ { TABLE_rnh_buffer_used_queue <queue_name>
<queue_count> [ { TABLE_clt_buf <clt_buf><clt_buf_count><clt_buf_xid> } ] } ] [ { TABLE_msgs_rcvd
<u6rib_mtype_str><u6pib_rcvd> } ] [ { TABLE_msgs_sent <u6rib_mtype_str><u6pib_sent> } ] } ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                    |
| routing               | Display routing information                        |
| vrf                   | (Optional) Display per-VRF information             |
| <i>vrf-name</i>       | (Optional) VRF name                                |
| <i>vrf-known-name</i> | (Optional) Known VRF name                          |
| vrf-all               | (Optional) Display information for all VRFs        |
| ipv6                  | Display IPv6 information                           |
| unicast               | (Optional) Display unicast information             |
| topology              | (Optional) Display per-topology information        |
| <i>topology-name</i>  | (Optional) topology name                           |
| clients               | Display u6rib client information                   |
| <i>client</i>         | (Optional) Display single u6rib client information |
| <i>ipv6-protocol</i>  | (Optional) Display single u6rib client information |
| __readonly__          | (Optional)   |
| TABLE_client          | (Optional)   |
| <i>client_name</i>    | (Optional)   |

|                                 |            |
|---------------------------------|------------|
| <i>pib_index</i>                | (Optional) |
| <i>pib_state</i>                | (Optional) |
| <i>pib_id</i>                   | (Optional) |
| <i>multicast_or_unicast_pib</i> | (Optional) |
| <i>mru_cache_hits</i>           | (Optional) |
| <i>mru_cache_misses</i>         | (Optional) |
| <i>mts_sap</i>                  | (Optional) |
| <i>mts_sap_str</i>              | (Optional) |
| <i>bad_l3vm_table_refcount</i>  | (Optional) |
| <i>pib_stale_time</i>           | (Optional) |
| TABLE_nib_node                  | (Optional) |
| <i>u6ribtibtype_contextname</i> | (Optional) |
| <i>routes</i>                   | (Optional) |
| <i>rnhs</i>                     | (Optional) |
| TABLE_notifeee_mask             | (Optional) |
| <i>u6pib_name</i>               | (Optional) |
| <i>index</i>                    | (Optional) |
| <i>u6tib_state</i>              | (Optional) |
| <i>pending_timer</i>            | (Optional) |
| <i>u6rib_state_invalid</i>      | (Optional) |
| <i>u6nib_notifier_all</i>       | (Optional) |
| TABLE_notify_rcd                | (Optional) |
| <i>notify_rcd_name</i>          | (Optional) |
| <i>notify_rcd_handle</i>        | (Optional) |
| <i>notifier_pib_u6pib_index</i> | (Optional) |
| TABLE_notiffee_nib              | (Optional) |
| <i>notiffee_pib_u6pib_name</i>  | (Optional) |
| <i>u6nib_notify_handle</i>      | (Optional) |
| TABLE_ready_client_event_queue  | (Optional) |

|                                      |            |
|--------------------------------------|------------|
| <i>queue_name</i>                    | (Optional) |
| <i>queue_count</i>                   | (Optional) |
| TABLE_client_event                   | (Optional) |
| <i>event</i>                         | (Optional) |
| <i>use_buf</i>                       | (Optional) |
| <i>sched</i>                         | (Optional) |
| <i>resend</i>                        | (Optional) |
| <i>buf</i>                           | (Optional) |
| <i>state</i>                         | (Optional) |
| TABLE_buffer_rqst_client_event_queue | (Optional) |
| <i>queue_name</i>                    | (Optional) |
| <i>queue_count</i>                   | (Optional) |
| TABLE_client_event                   | (Optional) |
| <i>event</i>                         | (Optional) |
| <i>use_buf</i>                       | (Optional) |
| <i>sched</i>                         | (Optional) |
| <i>resend</i>                        | (Optional) |
| <i>buf</i>                           | (Optional) |
| <i>state</i>                         | (Optional) |
| <i>update_ack_queue_count</i>        | (Optional) |
| TABLE_update_ack                     | (Optional) |
| <i>update_ack</i>                    | (Optional) |
| <i>update_ack_data</i>               | (Optional) |
| <i>update_ack_type</i>               | (Optional) |
| <i>update_ack_xid</i>                | (Optional) |
| TABLE_route_buffer_used_queue        | (Optional) |
| TABLE_clt_buf                        | (Optional) |
| TABLE_rnh_buffer_used_queue          | (Optional) |
| TABLE_clt_buf                        | (Optional) |

|                 |            |
|-----------------|------------|
| TABLE_msgs_rcvd | (Optional) |
| TABLE_msgs_sent | (Optional) |

**Command Mode**

- /exec

## show routing ipv6 event-history

show routing ipv6 [ unicast ] [ internal ] event-history { statistics | msgs | am | cli | detail | errors | general | ha | lfe | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary }

### Syntax Description

|                    |  |
|--------------------|--|
| show               | Show running system information        |
| routing            | Display routing information            |
| ipv6               | Display IPv6 information               |
| unicast            | (Optional) Display unicast information |
| internal           | (Optional) Commands for internal use   |
| event-history      | Show routing event log                 |
| statistics         | Show routing event log Statistics      |
| msgs               | Show routing message event log         |
| am                 | AM                                     |
| cli                | CLI                                    |
| detail             | Detail                                 |
| errors             | Errors                                 |
| general            | General                                |
| ha                 | HA                                     |
| lfe                | LFE                                    |
| recursive-next-hop | Recursive next hop                     |
| summary            | Summary                                |
| ufdm               | UFDM                                   |
| ufdm-detail        | UFDM Detail                            |
| ufdm-summary       | UFDM Summary                           |

### Command Mode

- /exec

## show routing ipv6 hash

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] hash [ mpls <ipv6-prefix> [ eos ] ] <source> <dest> [ ip-proto <ip-proto> ] [ <src-port> <dest-port> ] [ in-interface <in-interface> ] [ module <module-id> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf <vrf-name-out> [ <hash-type> ] [ <mcast> ] [ <hashpath> ] TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path [ <ubest> ] [ <mbest> ] [ <ipnexthop> ] [ <ifname> ] <pref> <metric> <uptime> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <hidden> ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information  |
| routing               | Display routing information  |
| vrf                   | (Optional) Display per-VRF information   |
| <i>vrf-name</i>       | (Optional) VRF name  |
| <i>vrf-known-name</i> | (Optional) Known VRF name  |
| vrf-all               | (Optional) Display information for all VRFs                                      |
| ipv6                  | Display IPv6 information   |
| unicast               | (Optional) Display unicast information   |
| topology              | (Optional) Display per-topology information                                      |
| <i>topology-name</i>  | (Optional) topology name   |
| hash                  | Display load-balancing hash information  |
| mpls                  | (Optional) MPLS path load-balancing hash information                             |
| eos                   | (Optional) Set End-of-Stack to 1   |
| ip-proto              | (Optional) IP Protocol information for the packet                                |
| <i>ip-proto</i>       | (Optional) IP Protocol information for the packet                                |
| <i>src-port</i>       | (Optional) Source-port   |
| <i>dest-port</i>      | (Optional) Destination-port  |
| in-interface          | (Optional) Incoming Interface for Packet.Option valid on Tomahawk platform only. |
| <i>in-interface</i>   | (Optional) Interface Name  |
| module                | (Optional) Module  |
| <i>module-id</i>      | (Optional) Module  |
| __readonly__          | (Optional)   |

|                     |            |
|---------------------|------------|
| TABLE_vrf           | (Optional) |
| <i>vrf-name-out</i> | (Optional) |
| <i>hash-type</i>    | (Optional) |
| <i>mcast</i>        | (Optional) |
| <i>hashpath</i>     | (Optional) |
| TABLE_prefix        | (Optional) |
| <i>ipprefix</i>     | (Optional) |
| <i>ucast-nhops</i>  | (Optional) |
| <i>mcast-nhops</i>  | (Optional) |
| <i>attached</i>     | (Optional) |
| TABLE_path          | (Optional) |
| <i>ubest</i>        | (Optional) |
| <i>mbest</i>        | (Optional) |
| <i>ifname</i>       | (Optional) |
| <i>pref</i>         | (Optional) |
| <i>tag</i>          | (Optional) |
| <i>metric</i>       | (Optional) |
| <i>uptime</i>       | (Optional) |
| <i>clientname</i>   | (Optional) |
| <i>type</i>         | (Optional) |
| <i>stale</i>        | (Optional) |
| <i>hidden</i>       | (Optional) |

### Command Mode

- /exec

## show routing ipv6 hidden-nh

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name>
] hidden-nh [ __readonly__ <uribtibtype_contextname> { TABLE_hidden_nh <nh> <nh-iod>
<hidden_nh_uhn_prefix> <hidden_nh_uhn_mask_len> <pib> <rn timer> <rn timer_mask_len> } ]
```

### Syntax Description

|                                |   |
|--------------------------------|---|
| show                           | Show running system information             |
| routing                        | Display routing information                 |
| vrf                            | (Optional) Display per-VRF information      |
| <i>vrf-name</i>                | (Optional) VRF name                         |
| <i>vrf-known-name</i>          | (Optional) Known VRF name                   |
| vrf-all                        | (Optional) Display information for all VRFs |
| ipv6                           | Display IPv6 information                    |
| unicast                        | (Optional) Display unicast information      |
| topology                       | (Optional) Display per-topology information |
| <i>topology-name</i>           | (Optional) topology name                    |
| hidden-nh                      | Display hidden next-hop information         |
| <i>__readonly__</i>            | (Optional)                                  |
| <i>uribtibtype_contextname</i> | (Optional)                                  |
| TABLE_hidden_nh                | (Optional)                                  |
| <i>nh</i>                      | (Optional)                                  |
| <i>nh-iod</i>                  | (Optional)                                  |
| <i>hidden_nh_uhn_prefix</i>    | (Optional)                                  |
| <i>hidden_nh_uhn_mask_len</i>  | (Optional)                                  |
| <i>pib</i>                     | (Optional)                                  |
| <i>rn timer</i>                | (Optional)                                  |
| <i>rn timer_mask_len</i>       | (Optional)                                  |

### Command Mode

- /exec

## show routing ipv6 memory estimate

```
show routing ipv6 [ unicast ] memory estimate [ routes <route-count> next-hops <nh-count> ] [ labels ] [
__readonly__ <curr-max-MB> <curr-max-routes> <curr-max-nh> <inuse-MB> <inuse-routes> <inuse-nh>
<conf-max-MB> <conf-max-routes> <conf-max-nh> [ <est-MB> <est-routes> <est-nh> ] ]
```

### Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information                                    |
| routing                | Display routing information  |
| ipv6                   | Display IPv6 information   |
| unicast                | (Optional) Display unicast information                             |
| memory                 | Display u6rib memory information                                   |
| estimate               | Display u6rib memory estimate                                      |
| routes                 | (Optional) Display u6rib memory estimate for # routes              |
| <i>route-count</i>     | (Optional) Number of routes  |
| next-hops              | (Optional) Display u6rib memory estimate for # next-hops per route |
| <i>nh-count</i>        | (Optional) Number of next-hops per route                           |
| labels                 | (Optional) When the routes are associated with next hop labels     |
| <i>__readonly__</i>    | (Optional)   |
| <i>curr-max-MB</i>     | (Optional)   |
| <i>curr-max-routes</i> | (Optional)   |
| <i>curr-max-nh</i>     | (Optional)   |
| <i>inuse-MB</i>        | (Optional)   |
| <i>inuse-routes</i>    | (Optional)   |
| <i>inuse-nh</i>        | (Optional)   |
| <i>conf-max-MB</i>     | (Optional)   |
| <i>conf-max-routes</i> | (Optional)   |
| <i>conf-max-nh</i>     | (Optional)   |
| <i>est-MB</i>          | (Optional)   |
| <i>est-routes</i>      | (Optional)   |
| <i>est-nh</i>          | (Optional)   |

**Command Mode**

- /exec

## show routing ipv6 memory statistics

```
show routing ipv6 [ unicast ] memory statistics [ __readonly__ { TABLE_shrd_mem <rbuf-alloc>
<rbuf-high-water> <rbuf-max> <rbuf-numalloc> <slbs-alloc> <slbs-high-water> <slbs-max> <slbs-numalloc>
} { TABLE_u6rib_slabs <slab-name> <alloc-count> <max-allocs> <slab-size> } { TABLE_u6rib_blks
<slab-blk-name> <block-count> <max-blocks> <slab-count> } { TABLE_u6rib_routes_rnhs <ctx-name>
<user-nodes> <total-nodes> <elem-size> } ]
```

### Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information                |
| routing                 | Display routing information                    |
| ipv6                    | Display IPv6 information                       |
| unicast                 | (Optional) Display unicast routing information |
| memory                  | Display u6rib memory information               |
| statistics              | Display u6rib memory statistics                |
| <i>__readonly__</i>     | (Optional)                                     |
| TABLE_shrd_mem          | (Optional)                                     |
| TABLE_u6rib_slabs       | (Optional)                                     |
| TABLE_u6rib_blks        | (Optional)                                     |
| TABLE_u6rib_routes_rnhs | (Optional)                                     |
| <i>ctx-name</i>         | (Optional)                                     |
| <i>slab-name</i>        | (Optional)                                     |
| <i>slab-blk-name</i>    | (Optional)                                     |
| <i>rbuf-alloc</i>       | (Optional)                                     |
| <i>rbuf-high-water</i>  | (Optional)                                     |
| <i>rbuf-max</i>         | (Optional)                                     |
| <i>rbuf-numalloc</i>    | (Optional)                                     |
| <i>slbs-alloc</i>       | (Optional)                                     |
| <i>slbs-high-water</i>  | (Optional)                                     |
| <i>slbs-max</i>         | (Optional)                                     |
| <i>slbs-numalloc</i>    | (Optional)                                     |
| <i>user-nodes</i>       | (Optional)                                     |

|                    |            |
|--------------------|------------|
| <i>total-nodes</i> | (Optional) |
| <i>elem-size</i>   | (Optional) |
| <i>alloc-count</i> | (Optional) |
| <i>max-allocs</i>  | (Optional) |
| <i>slab-size</i>   | (Optional) |
| <i>block-count</i> | (Optional) |
| <i>max-blocks</i>  | (Optional) |
| <i>slab-count</i>  | (Optional) |

**Command Mode**

- /exec

## show routing ipv6 multicast

```
show routing ipv6 multicast [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ topology <topology-name> ]
[ [ bitfield ] | rp | { [ <group> ] summary [ software-forwarded ] } | { summary [ count | software-forwarded
] } | { { <source> <group> } | { <group> [ <source> ] } } [ summary [ software-forwarded ] | bitfield ] ] [
__readonly__ { TABLE_vrf <vrf-name> [ TABLE_addr <mcast-addr> <pending> <bidir> <uptime> [
TABLE_mpib <mpib-name> <stale-route> ] <if-name><rpf-nbr> <internal>
<oif-count><fabric-oif><fabric-loser> [ TABLE_oif <oif-name> <oif-uptime> [ TABLE_oif_mpib
<oif-mpib-name> <stale-oif> ] <rpf> ] [ <oif-list-bitfield> ] ] [ <total-route-count> <star-g-count>
<source-count> <star-g-prefix-count> <group-count> <avg-sources-per-group><rem> [
<reason-for-route-stats-pending> ] ] [ TABLE_group <group-addr> <group-mask-len> <source-count-per-grp>
[ TABLE_source <route-or-source> [ <name> ] <packets> <bytes> <aps> <pps> <bit-rate-in-bps> <oifs> [
<software-pkts> ] ] ] }
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                        |
| ipv6                  | Display IPv6 information                               |
| vrf                   | (Optional) Display per-VRF information                 |
| <i>vrf-name</i>       | (Optional) VRF name                                    |
| <i>vrf-known-name</i> | (Optional) Known VRF name                              |
| all                   | (Optional) Display information for all VRFs            |
| routing               | Display routing information                            |
| multicast             | Display multicast information                          |
| topology              | (Optional) Display per-topology information            |
| <i>topology-name</i>  | (Optional) topology name                               |
| summary               | (Optional) Display route counts                        |
| software-forwarded    | (Optional) Display software switched route counts only |
| rp                    | (Optional) Display RP routes (RP, 0::/128)             |
| count                 | (Optional) Display route counts only                   |
| bitfield              | (Optional) Display bitfield details                    |
| __readonly__          | (Optional)   |
| TABLE_vrf             | (Optional)   |
| <i>vrf-name</i>       | (Optional)   |
| TABLE_addr            | (Optional)   |

|                                       |            |
|---------------------------------------|------------|
| <i>mcast-addr</i> s                   | (Optional) |
| <i>bidir</i>                          | (Optional) |
| <i>pending</i>                        | (Optional) |
| <i>uptime</i>                         | (Optional) |
| <i>internal</i>                       | (Optional) |
| TABLE_mpib                            | (Optional) |
| <i>mpib-name</i>                      | (Optional) |
| <i>stale-route</i>                    | (Optional) |
| TABLE_oif                             | (Optional) |
| <i>oif-name</i>                       | (Optional) |
| <i>oif-uptime</i>                     | (Optional) |
| <i>rpf</i>                            | (Optional) |
| <i>oif-list-bitfield</i>              | (Optional) |
| TABLE_oif_mpib                        | (Optional) |
| <i>oif-mpib-name</i>                  | (Optional) |
| <i>stale-oif</i>                      | (Optional) |
| <i>total-route-count</i>              | (Optional) |
| <i>star-g-count</i>                   | (Optional) |
| <i>source-count</i>                   | (Optional) |
| <i>star-g-prefix-count</i>            | (Optional) |
| <i>group-count</i>                    | (Optional) |
| <i>reason-for-route-stats-pending</i> | (Optional) |
| TABLE_group                           | (Optional) |
| <i>group-addr</i>                     | (Optional) |
| <i>group-mask-len</i>                 | (Optional) |
| <i>source-count-per-grp</i>           | (Optional) |
| TABLE_source                          | (Optional) |
| <i>route-or-source</i>                | (Optional) |
| <i>name</i>                           | (Optional) |

|                        |            |
|------------------------|------------|
| <i>packets</i>         | (Optional) |
| <i>bytes</i>           | (Optional) |
| <i>aps</i>             | (Optional) |
| <i>pps</i>             | (Optional) |
| <i>bit-rate-in-bps</i> | (Optional) |
| <i>oifs</i>            | (Optional) |
| <i>software-pkts</i>   | (Optional) |

**Command Mode**

- /exec

## show routing ipv6 multicast clients

```
show routing ipv6 multicast clients [ <client-name> ] [ __readonly__ { TABLE_client <client-name> <cid>
<pid> <mts-sap> <shared-mem> <is-stale-timer-running> <wants-notification> [ TABLE_protocol
<SSM-owner> <Bidir-owner> <static-owner> <shared-only-owner> <locally-joined-owner> <external-owner>
] { TABLE_join_notifications <sent> <fail> <ack-rcvd> } { TABLE_prune_notifications <sent> <fail>
<ack-rcvd> } { TABLE_rpf_notifications <sent> <fail> <ack-rcvd> } { TABLE_delete_notifications <sent>
<fail> <ack-rcvd> } { TABLE_clear_mrout_notifications <sent> <fail> <ack-rcvd> } { TABLE_add_route_req
<rcvd> <ack-sent> <ack-fail> } { TABLE_del_route_req <rcvd> <ack-sent> <ack-fail> } {
TABLE_upd_route_req <rcvd> <ack-sent> <ack-fail> } }
```

### Syntax Description

|                               |  |
|-------------------------------|--|
| show                          | Show running system information              |
| routing                       | Display routing information                  |
| ipv6                          | Display IPv6 information                     |
| multicast                     | Display multicast information                |
| clients                       | Display multicast routing client information |
| <i>client-name</i>            | (Optional) Multicast routing client name     |
| <i>__readonly__</i>           | (Optional)                                   |
| TABLE_client                  | (Optional)                                   |
| <i>client-name</i>            | (Optional)                                   |
| <i>cid</i>                    | (Optional)                                   |
| <i>pid</i>                    | (Optional)                                   |
| <i>mts-sap</i>                | (Optional)                                   |
| <i>shared-mem</i>             | (Optional)                                   |
| <i>is-stale-timer-running</i> | (Optional)                                   |
| <i>wants-notification</i>     | (Optional)                                   |
| TABLE_protocol                | (Optional)                                   |
| <i>SSM-owner</i>              | (Optional)                                   |
| <i>Bidir-owner</i>            | (Optional)                                   |
| <i>static-owner</i>           | (Optional)                                   |
| <i>shared-only-owner</i>      | (Optional)                                   |
| <i>locally-joined-owner</i>   | (Optional)                                   |

|                                  |            |
|----------------------------------|------------|
| <i>external-owner</i>            | (Optional) |
| TABLE_join_notifications         | (Optional) |
| <i>sent</i>                      | (Optional) |
| <i>fail</i>                      | (Optional) |
| <i>ack-rcvd</i>                  | (Optional) |
| TABLE_prune_notifications        | (Optional) |
| <i>sent</i>                      | (Optional) |
| <i>fail</i>                      | (Optional) |
| <i>ack-rcvd</i>                  | (Optional) |
| TABLE_rpf_notifications          | (Optional) |
| <i>sent</i>                      | (Optional) |
| <i>fail</i>                      | (Optional) |
| <i>ack-rcvd</i>                  | (Optional) |
| TABLE_delete_notifications       | (Optional) |
| <i>sent</i>                      | (Optional) |
| <i>fail</i>                      | (Optional) |
| <i>ack-rcvd</i>                  | (Optional) |
| TABLE_clear_mroute_notifications | (Optional) |
| <i>sent</i>                      | (Optional) |
| <i>fail</i>                      | (Optional) |
| <i>ack-rcvd</i>                  | (Optional) |
| TABLE_add_route_req              | (Optional) |
| <i>rcvd</i>                      | (Optional) |
| <i>ack-sent</i>                  | (Optional) |
| <i>ack-fail</i>                  | (Optional) |
| TABLE_del_route_req              | (Optional) |
| <i>rcvd</i>                      | (Optional) |
| <i>ack-sent</i>                  | (Optional) |
| <i>ack-fail</i>                  | (Optional) |

|                     |            |
|---------------------|------------|
| TABLE_upd_route_req | (Optional) |
| <i>rcvd</i>         | (Optional) |
| <i>ack-sent</i>     | (Optional) |
| <i>ack-fail</i>     | (Optional) |

**Command Mode**

- /exec

## show routing ipv6 multicast event-history

```
show routing ipv6 multicast [ internal ] event-history { errors | msgs | <m6rib-event-hist-buf-name> | statistics
}
```

### Syntax Description

|                                  |  |
|----------------------------------|--|
| show                             | Show running system information        |
| routing                          | Display routing information            |
| ipv6                             | Display IPv6 information               |
| multicast                        | Display multicast information          |
| internal                         | (Optional) Commands for internal use   |
| event-history                    | Show various event logs of M6RIB       |
| errors                           | Show error logs of M6RIB               |
| msgs                             | Show various message logs of M6RIB     |
| <i>m6rib-event-hist-buf-name</i> | M6RIB event history buffer name        |
| statistics                       | Show the state and size of the buffers |

### Command Mode

- /exec

## show routing ipv6 multicast memory estimate

```
show routing ipv6 multicast memory estimate [ groups <group-count> sources-per-group <source-count>
oifs-per-entry <oif-count> ] [ __readonly__ { { TABLE_cur_max <current-max-mb> <groups>
<sources-per-group> <oifs-per-entry> } { TABLE_in_use <in-use_kb> <groups> <sources-per-group>
<oifs-per-entry> } { TABLE_conf_max <conf-max-mb> <groups> <sources-per-group> <oifs-per-entry> }
[ TABLE_est_max <estimate-mb> <groups> <sources-per-group> <oifs-per-entry> ] } ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information   |
| routing                  | Display routing information   |
| ipv6                     | Display IPv6 information  |
| multicast                | Display multicast information   |
| memory                   | Display m6rib memory information  |
| estimate                 | Display m6rib memory estimate   |
| groups                   | (Optional) Display m6rib memory estimate for # groups                       |
| <i>group-count</i>       | (Optional) Number of groups   |
| sources-per-group        | (Optional) Display mrib memory estimate for # sources per group             |
| <i>source-count</i>      | (Optional) Number of sources per route                                      |
| oifs-per-entry           | (Optional) Display mrib memory estimate for # oifs per (S,G) or (*,G) entry |
| <i>oif-count</i>         | (Optional) Number of oifs per entry   |
| <i>__readonly__</i>      | (Optional)  |
| TABLE_cur_max            | (Optional)  |
| <i>current-max-mb</i>    | (Optional)  |
| <i>groups</i>            | (Optional)  |
| <i>sources-per-group</i> | (Optional)  |
| <i>oifs-per-entry</i>    | (Optional)  |
| TABLE_in_use             | (Optional)  |
| <i>in-use_kb</i>         | (Optional)  |
| <i>groups</i>            | (Optional)  |
| <i>sources-per-group</i> | (Optional)  |

|                          |            |
|--------------------------|------------|
| <i>oifs-per-entry</i>    | (Optional) |
| TABLE_conf_max           | (Optional) |
| <i>conf-max-mb</i>       | (Optional) |
| <i>groups</i>            | (Optional) |
| <i>sources-per-group</i> | (Optional) |
| <i>oifs-per-entry</i>    | (Optional) |
| TABLE_est_max            | (Optional) |
| <i>estimate-mb</i>       | (Optional) |
| <i>groups</i>            | (Optional) |
| <i>sources-per-group</i> | (Optional) |
| <i>oifs-per-entry</i>    | (Optional) |

**Command Mode**

- /exec

## show routing ipv6 nexthop info

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] nexthop info [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| routing               | Display routing information                 |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| vrf-all               | (Optional) Display information for all VRFs |
| ipv6                  | Display IPv6 information                    |
| unicast               | (Optional) Display unicast information      |
| topology              | (Optional) Display per-topology information |
| <i>topology-name</i>  | (Optional) topology name                    |
| nexthop               | Show the nh_info tree                       |
| info                  | Show the nh_info tree                       |

### Command Mode

- /exec

## show routing ipv6 nhlfe

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] nhlfe [ stats ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ { TABLE_vrf <vrf-name-out> [ <nhlfe-owner> <nhlfe-refcount> { TABLE_nhlable <nhlable-index> <nhl-label> } <nhlfe-is-vpn> <nhlfe-owner-index> } ] <total-entries> ] ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information             |
| routing                  | Display routing information                 |
| vrf                      | (Optional) Display per-VRF information      |
| <i>vrf-name</i>          | (Optional) VRF name                         |
| <i>vrf-known-name</i>    | (Optional) Known VRF name                   |
| vrf-all                  | (Optional) Display information for all VRFs |
| ipv6                     | Display IPv6 information                    |
| unicast                  | (Optional) Display unicast information      |
| topology                 | (Optional) Display per-topology information |
| <i>topology-name</i>     | (Optional) topology name                    |
| nhlfe                    | Display NHLFE db                            |
| stats                    | (Optional) Display statistics               |
| <i>__readonly__</i>      | (Optional)                                  |
| TABLE_vrf                | (Optional)                                  |
| <i>vrf-name-out</i>      | (Optional)                                  |
| <i>nhlfe-owner</i>       | (Optional)                                  |
| <i>nhlfe-refcount</i>    | (Optional)                                  |
| TABLE_nhlable            | (Optional)                                  |
| <i>nhlable-index</i>     | (Optional)                                  |
| <i>nh-label</i>          | (Optional)                                  |
| <i>nhlfe-is-vpn</i>      | (Optional)                                  |
| <i>nhlfe-owner-index</i> | (Optional)                                  |
| <i>total-entries</i>     | (Optional)                                  |

**Command Mode**

- /exec

## show routing ipv6 recursive-next-hop

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] recursive-next-hop [ <ipv6-addr> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> TABLE_prefix <ipprefix> <uptime> TABLE_clients <client-req> <client-pend> ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| routing               | Display routing information                 |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| vrf-all               | (Optional) Display information for all VRFs |
| ipv6                  | Display IPv6 information                    |
| unicast               | (Optional) Display unicast information      |
| topology              | (Optional) Display per-topology information |
| <i>topology-name</i>  | (Optional) topology name                    |
| recursive-next-hop    | Display recursive next-hop table            |
| __readonly__          | (Optional)                                  |
| TABLE_vrf             | (Optional)                                  |
| <i>vrf-name-out</i>   | (Optional)                                  |
| TABLE_addrf           | (Optional)                                  |
| <i>addrf</i>          | (Optional)                                  |
| TABLE_prefix          | (Optional)                                  |
| <i>uptime</i>         | (Optional)                                  |
| TABLE_clients         | (Optional)                                  |
| <i>client-req</i>     | (Optional)                                  |
| <i>client-pend</i>    | (Optional)                                  |

### Command Mode

- /exec

## show routing memory estimate

```
show routing [ ip | ipv4 ] [ unicast ] memory estimate [ routes <route-count> [ next-hops <nh-count> ] [
next-hops-v6 <nh6-count> ] ] [ labels ] [ __readonly__ <current_max_mb> <current_max_routes>
<urib_max_nh> <used_mb> <route_stats_alloc_count> <nhs> <configured_max_mb>
<configured_max_routes> <urib_routes_max_nh> [ <estimate_mb> <estimate_routes> <estimate_nhs>
<estimate_with_mvpn_mb> <estimate_with_ospf_mb> <estimate_with_eigrp_mb> ] ]
```

### Syntax Description

|                                |  |
|--------------------------------|--|
| show                           | Show running system information                                      |
| routing                        | Display routing information  |
| ip                             | (Optional) Display IP information                                    |
| ipv4                           | (Optional) Display IP information                                    |
| unicast                        | (Optional) Display unicast information                               |
| memory                         | Display urib memory information                                      |
| estimate                       | Display urib memory estimate   |
| routes                         | (Optional) Display urib memory estimate for # routes                 |
| <i>route-count</i>             | (Optional) Number of routes  |
| next-hops                      | (Optional) Display urib memory estimate for # next-hops per route    |
| <i>nh-count</i>                | (Optional) Number of next-hops per route                             |
| next-hops-v6                   | (Optional) Display urib memory estimate for # V6 next-hops per route |
| <i>nh6-count</i>               | (Optional) Number of V6 next-hops per route                          |
| labels                         | (Optional) When the routes are associated with next hop labels       |
| <i>__readonly__</i>            | (Optional)   |
| <i>current_max_mb</i>          | (Optional)   |
| <i>current_max_routes</i>      | (Optional)   |
| <i>urib_max_nh</i>             | (Optional)   |
| <i>used_mb</i>                 | (Optional)   |
| <i>route_stats_alloc_count</i> | (Optional)   |
| <i>nhs</i>                     | (Optional)   |
| <i>configured_max_mb</i>       | (Optional)   |
| <i>configured_max_routes</i>   | (Optional)   |

|                               |            |
|-------------------------------|------------|
| <i>urib_routes_max_nh</i>     | (Optional) |
| <i>estimate_mb</i>            | (Optional) |
| <i>estimate_routes</i>        | (Optional) |
| <i>estimate_nhs</i>           | (Optional) |
| <i>estimate_with_mvpn_mb</i>  | (Optional) |
| <i>estimate_with_ospf_mb</i>  | (Optional) |
| <i>estimate_with_eigrp_mb</i> | (Optional) |

**Command Mode**

- /exec

## show routing memory statistics

```
show routing [ ip | ipv4 ] [ unicast ] memory statistics [ __readonly__ { TABLE_shrd_mem <ubuf-alloc>
<ubuf-high-water> <ubuf-max> <ubuf-numalloc> <rbuf-alloc> <rbuf-high-water> <rbuf-max> <rbuf-numalloc>
<slbs-alloc> <slbs-high-water> <slbs-max> <slbs-numalloc> } { TABLE_urib_slabs <slab-name>
<slab-alloc-count> <slab-max-allocs> <slab-size> } { TABLE_urib_blks <block-name> <block-count>
<max-blocks> <blks-count> } { TABLE_urib_routes_rnhs <ctx-name> <user-node> <total-node> <elem-size>
} ]
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information        |
| routing                   | Display routing information            |
| ip                        | (Optional) Display IP information      |
| ipv4                      | (Optional) Display IP information      |
| unicast                   | (Optional) Display unicast information |
| memory                    | Display urib memory information        |
| statistics                | Display urib memory statistics         |
| <code>__readonly__</code> | (Optional)                             |
| TABLE_shrd_mem            | (Optional)                             |
| <i>ubuf-alloc</i>         | (Optional)                             |
| <i>ubuf-high-water</i>    | (Optional)                             |
| <i>ubuf-max</i>           | (Optional)                             |
| <i>ubuf-numalloc</i>      | (Optional)                             |
| <i>rbuf-alloc</i>         | (Optional)                             |
| <i>rbuf-high-water</i>    | (Optional)                             |
| <i>rbuf-max</i>           | (Optional)                             |
| <i>rbuf-numalloc</i>      | (Optional)                             |
| <i>slbs-alloc</i>         | (Optional)                             |
| <i>slbs-high-water</i>    | (Optional)                             |
| <i>slbs-max</i>           | (Optional)                             |
| <i>slbs-numalloc</i>      | (Optional)                             |
| TABLE_urib_slabs          | (Optional)                             |

|                         |            |
|-------------------------|------------|
| <i>slab-name</i>        | (Optional) |
| <i>slab-alloc-count</i> | (Optional) |
| <i>slab-max-allocs</i>  | (Optional) |
| <i>slab-size</i>        | (Optional) |
| TABLE_urib_blks         | (Optional) |
| <i>block-name</i>       | (Optional) |
| <i>block-count</i>      | (Optional) |
| <i>max-blocks</i>       | (Optional) |
| <i>blks-count</i>       | (Optional) |
| TABLE_urib_routes_rnhs  | (Optional) |
| <i>ctx-name</i>         | (Optional) |
| <i>user-node</i>        | (Optional) |
| <i>total-node</i>       | (Optional) |
| <i>elem-size</i>        | (Optional) |

**Command Mode**

- /exec

## show routing multicast

```
show routing [ ip | ipv4 ] multicast { { [ bitfield ] [ detail ] } | rp | { [ <group> ] summary [ software-forwarded
| rpf-failed ] } | { summary [ count | software-forwarded | rpf-failed ] } | { { <source> <group> } | { <group>
[ <source> ] | <group> shared-tree | <group> source-tree } | shared-tree | source-tree } { [ flags ] | [ detail ] |
[ summary [ software-forwarded | rpf-failed ] | bitfield ] } } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
[ __readonly__ TABLE_vrf <vrf-name> [ <expiry_timer> ] [ <route_count> ] [ <star_g_cnt> ] [ <sg_cnt> ]
[ <star_g_prfx_cnt> ] [ TABLE_route_summary [ <total-num-routes> ] [ <star-g-route> ] [ <sg-route> ] [
<star-g-prfx> ] [ <group-count> ] [ <avg> ] [ <rem> ] [ <stats-pndg> ] ] [ TABLE_summary_source [
<group_addr> ] [ <group_mask_len> ] [ <source_count> ] [ TABLE_one_sg [ <source_addr> ] [ <packets>
] [ <bytes> ] [ <aps> ] [ <pps> ] [ <rate_buf> ] [ <oifs> ] [ <software_fwd> ] [ <rpf-failed-pkts> ] [
<rpf-failed-bytes> ] ] ] [ TABLE_one_route <mcast-addr> <pending> <bidir> <uptime> [ TABLE_mpib [
<mpib-name> ] [ <oif-count> ] [ <stale-route> ] ] [ <mdt-encap-index> ] [ <stats-pkts> ] [ <stats-bytes> ] [
<stats-rate-buf> ] [ <lisp-src-rloc> ] [ <route-iif> ] [ <rpf-nbr> ] <internal> [ <oif-count> ] <fabric-oif>
<fabric-loser> [ <num-vpc-svi-oifs> ] [ TABLE_oif [ <oif-name> ] [ <oif-uptime> ] [ TABLE_oif_mpib [
<oif-mpib-name> ] [ <stale-oif> ] [ <omd-vpc-svi> ] ] [ <rpf> ] [ <route-mdt-iod> ] [ <oif-list-bitfield> ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                             |
| ip                    | (Optional) Display IP information                           |
| vrf                   | (Optional) Display per-VRF information                      |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                   |
| all                   | (Optional) Display information for all VRFs                 |
| routing               | Display routing information                                 |
| ipv4                  | (Optional) Display IP information                           |
| multicast             | Display multicast information                               |
| summary               | Display route counts  |
| shared-tree           | Display route for *,G entries                               |
| source-tree           | Display route for S,G entries                               |
| software-forwarded    | (Optional) Display software switched route counts only      |
| rpf-failed            | (Optional) Display RPF failure statistics                   |
| rp                    | Display RP routes (RP, 0.0.0.0/32)                          |
| <i>group</i>          | (Optional) Display multicast group/source address for route |
| <i>source</i>         | Display multicast group/source address for route            |
| count                 | (Optional) Display route counts only                        |

|                         |  |
|-------------------------|--|
| bitfield                | (Optional) Display bitfield details          |
| detail                  | (Optional) Display detailed route attributes |
| flags                   | (Optional) Display detailed route attributes |
| __readonly__            | (Optional)                                   |
| TABLE_vrf               | (Optional)                                   |
| <i>vrf-name</i>         | (Optional)                                   |
| <i>expry_timer</i>      | (Optional)                                   |
| <i>route_count</i>      | (Optional)                                   |
| <i>star_g_cnt</i>       | (Optional)                                   |
| <i>sg_cnt</i>           | (Optional)                                   |
| <i>star_g_prfx_cnt</i>  | (Optional)                                   |
| TABLE_summary_source    | (Optional)                                   |
| <i>group_addr</i>       | (Optional)                                   |
| <i>group_mask_len</i>   | (Optional)                                   |
| <i>source_count</i>     | (Optional)                                   |
| TABLE_one_sg            | (Optional)                                   |
| <i>source_addr</i>      | (Optional)                                   |
| <i>packets</i>          | (Optional)                                   |
| <i>bytes</i>            | (Optional)                                   |
| <i>aps</i>              | (Optional)                                   |
| <i>pps</i>              | (Optional)                                   |
| <i>rate_buf</i>         | (Optional)                                   |
| <i>oifs</i>             | (Optional)                                   |
| <i>software_fwd</i>     | (Optional)                                   |
| <i>rpf-failed-pkts</i>  | (Optional)                                   |
| <i>rpf-failed-bytes</i> | (Optional)                                   |
| TABLE_one_route         | (Optional)                                   |
| <i>mcast-addr</i>       | (Optional)                                   |
| <i>bidir</i>            | (Optional)                                   |

|                          |            |
|--------------------------|------------|
| <i>pending</i>           | (Optional) |
| <i>uptime</i>            | (Optional) |
| TABLE_mpib               | (Optional) |
| <i>mpib-name</i>         | (Optional) |
| <i>oif-count</i>         | (Optional) |
| <i>stale-route</i>       | (Optional) |
| <i>mdt-encap-index</i>   | (Optional) |
| <i>stats-pkts</i>        | (Optional) |
| <i>stats-bytes</i>       | (Optional) |
| <i>stats-rate-buf</i>    | (Optional) |
| <i>lisp-src-rloc</i>     | (Optional) |
| <i>route-iif</i>         | (Optional) |
| <i>rpf-nbr</i>           | (Optional) |
| <i>internal</i>          | (Optional) |
| <i>oif-count</i>         | (Optional) |
| <i>fabric-oif</i>        | (Optional) |
| <i>fabric-loser</i>      | (Optional) |
| <i>num-vpc-svi-oifs</i>  | (Optional) |
| TABLE_oif                | (Optional) |
| <i>oif-name</i>          | (Optional) |
| <i>oif-uptime</i>        | (Optional) |
| TABLE_oif_mpib           | (Optional) |
| <i>oif-mpib-name</i>     | (Optional) |
| <i>stale-oif</i>         | (Optional) |
| <i>omd-vpc-svi</i>       | (Optional) |
| <i>rpf</i>               | (Optional) |
| <i>route-mdt-iod</i>     | (Optional) |
| <i>oif-list-bitfield</i> | (Optional) |
| TABLE_route_summary      | (Optional) |

|                         |            |
|-------------------------|------------|
| <i>total-num-routes</i> | (Optional) |
| <i>star-g-route</i>     | (Optional) |
| <i>sg-route</i>         | (Optional) |
| <i>star-g-prfx</i>      | (Optional) |
| <i>group-count</i>      | (Optional) |
| <i>avg</i>              | (Optional) |
| <i>rem</i>              | (Optional) |
| <i>stats-pndg</i>       | (Optional) |

**Command Mode**

- /exec

## show routing multicast clients

```
show routing [ ip | ipv4 ] multicast clients [ <client-name> ] [ __readonly__ { TABLE_mpib <mpib_name>
<mpib_index> <mpib_pid> <mpib_mts_sap> <mpib_shm> <stale_timer> <join_notify> <prune_notify>
<rpf_notify> <delete_notify> <repopulate_notify> <pending_mpib> <ssm_owner> <bidir_owner>
<static_owner> <shared_only_owner> <locally_joined_owner> <external_owner> <mdt_owner>
<sticky_iif_owner> <data_created_owner> <internal_owner> <prune_owner> <attached_owner>
<otv_decap_owner> <secondary_owner> <encap_index_owner> <force_punt_owner> <multi_route_owner>
<notify_sent> <notify_ack_rcvd> <notify_fail> <add_route_req_rcvd> <add_route_ack_sent>
<add_route_ack_fail> <delete_route_req_rcvd> <delete_route_ack_sent> <delete_route_ack_fail>
<update_route_req_rcvd> <update_route_ack_sent> <update_route_ack_fail> <update_mdt_info_req_rcvd>
<update_mdt_info_ack_sent> <update_mdt_info_ack_fail> <mts_update_route_req_rcvd>
<mts_update_route_ack_sent> <mts_update_route_ack_fail> <notify_member_count> } ]
```

### Syntax Description

|                      |  |
|----------------------|--|
| show                 | Show running system information              |
| routing              | Display routing information                  |
| ip                   | (Optional) Display IP information            |
| ipv4                 | (Optional) Display IP information            |
| multicast            | Display multicast information                |
| clients              | Display multicast routing client information |
| <i>client-name</i>   | (Optional) Multicast routing client name     |
| <i>__readonly__</i>  | (Optional)                                   |
| TABLE_mpib           | (Optional)                                   |
| <i>mpib_name</i>     | (Optional)                                   |
| <i>mpib_index</i>    | (Optional)                                   |
| <i>mpib_pid</i>      | (Optional)                                   |
| <i>mpib_mts_sap</i>  | (Optional)                                   |
| <i>mpib_shm</i>      | (Optional)                                   |
| <i>stale_timer</i>   | (Optional)                                   |
| <i>join_notify</i>   | (Optional)                                   |
| <i>prune_notify</i>  | (Optional)                                   |
| <i>rpf_notify</i>    | (Optional)                                   |
| <i>delete_notify</i> | (Optional)                                   |

|                              |            |
|------------------------------|------------|
| <i>repopulate_notify</i>     | (Optional) |
| <i>ssm_owner</i>             | (Optional) |
| <i>bidir_owner</i>           | (Optional) |
| <i>static_owner</i>          | (Optional) |
| <i>shared_only_owner</i>     | (Optional) |
| <i>locally_joined_owner</i>  | (Optional) |
| <i>external_owner</i>        | (Optional) |
| <i>mdt_owner</i>             | (Optional) |
| <i>sticky_iif_owner</i>      | (Optional) |
| <i>data_created_owner</i>    | (Optional) |
| <i>internal_owner</i>        | (Optional) |
| <i>prune_owner</i>           | (Optional) |
| <i>attached_owner</i>        | (Optional) |
| <i>otv_decap_owner</i>       | (Optional) |
| <i>secondary_owner</i>       | (Optional) |
| <i>encap_index_owner</i>     | (Optional) |
| <i>force_punt_owner</i>      | (Optional) |
| <i>multi_route_owner</i>     | (Optional) |
| <i>notify_sent</i>           | (Optional) |
| <i>notify_ack_rcvd</i>       | (Optional) |
| <i>notify_fail</i>           | (Optional) |
| <i>add_route_req_rcvd</i>    | (Optional) |
| <i>add_route_ack_sent</i>    | (Optional) |
| <i>add_route_ack_fail</i>    | (Optional) |
| <i>delete_route_req_rcvd</i> | (Optional) |
| <i>delete_route_ack_sent</i> | (Optional) |
| <i>delete_route_ack_fail</i> | (Optional) |
| <i>update_route_req_rcvd</i> | (Optional) |
| <i>update_route_ack_sent</i> | (Optional) |

|                                  |            |
|----------------------------------|------------|
| <i>update_route_ack_fail</i>     | (Optional) |
| <i>update_mdt_info_req_rcvd</i>  | (Optional) |
| <i>update_mdt_info_ack_sent</i>  | (Optional) |
| <i>update_mdt_info_ack_fail</i>  | (Optional) |
| <i>mts_update_route_req_rcvd</i> | (Optional) |
| <i>mts_update_route_ack_sent</i> | (Optional) |
| <i>mts_update_route_ack_fail</i> | (Optional) |
| <i>notify_member_count</i>       | (Optional) |
| <i>pending_mpib</i>              | (Optional) |

**Command Mode**

- /exec

# show routing multicast event-history

```
show routing [ ip | ipv4 ] multicast [ internal ] event-history { errors | msgs | <mrib-event-hist-buf-name> |
statistics }
```

## Syntax Description

|                                 |                                      |
|---------------------------------|--------------------------------------|
| show                            | Show running system information      |
| routing                         | Display routing information          |
| ip                              | (Optional) Display IP information    |
| ipv4                            | (Optional) Display IP information    |
| multicast                       | Display multicast information        |
| internal                        | (Optional) Commands for internal use |
| event-history                   | Show various event logs of MRIB      |
| errors                          | Show error logs of MRIB              |
| msgs                            | Show various message logs of MRIB    |
| <i>mrib-event-hist-buf-name</i> | Event history buffer name            |
| statistics                      | State and size of buffer             |

## Command Mode

- /exec

## show routing multicast lisp encap

```
{ show routing [ ip | ipv4 ] multicast lisp encap } [ __readonly__ <mrib-list-encap> { TABLE_mrib_list_encap
<encap-index> <source-rloc> <dest-rloc> <ref-count> } ]
```

### Syntax Description

|                        |                                   |
|------------------------|-----------------------------------|
| show                   | Show running system information   |
| routing                | Display routing information       |
| ip                     | (Optional) Display IP information |
| ipv4                   | (Optional) Display IP information |
| multicast              | Display multicast information     |
| lisp                   | LISP related information          |
| encap                  | All the encap indices             |
| __readonly__           | (Optional)                        |
| <i>mrib-list-encap</i> | (Optional)                        |
| TABLE_mrib_list_encap  | (Optional)                        |
| <i>encap-index</i>     | (Optional)                        |
| <i>source-rloc</i>     | (Optional)                        |
| <i>dest-rloc</i>       | (Optional)                        |
| <i>ref-count</i>       | (Optional)                        |

### Command Mode

- /exec

## show routing multicast mdt encapsulation

```
show routing [ ip | ipv4 ] multicast mdt encapsulation [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all
} ] [ __readonly__ { TABLE_vrf <vrf-name> { TABLE_mdt <index> <group> <source> <count>
<delete-pending> } } ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| routing               | Display routing information                 |
| ip                    | (Optional) Display IP information           |
| ipv4                  | (Optional) Display IP information           |
| multicast             | Display multicast information               |
| mdt                   | Multicast Distribution Tree                 |
| encapsulation         | Encapsulation Information                   |
| detail                | (Optional) Display detailed information     |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_vrf             | (Optional)                                  |
| <i>vrf-name</i>       | (Optional)                                  |
| TABLE_mdt             | (Optional)                                  |
| <i>index</i>          | (Optional)                                  |
| <i>group</i>          | (Optional)                                  |
| <i>source</i>         | (Optional)                                  |
| <i>count</i>          | (Optional)                                  |
| <i>delete-pending</i> | (Optional)                                  |

### Command Mode

- /exec

## show routing multicast memory estimate

```
show routing [ ip | ipv4 ] multicast memory estimate [ groups <group-count> sources-per-group <source-count>
oifs-per-entry <oif-count> [ mdt-encap-entries <encap-entry-count> ] ] [ __readonly__ { TABLE_currentmax
<max-mb> <max-groups> <sources-per-group> <oifs-per-entry> } { TABLE_inuse <used-kb> <alloc-count>
<sources-per-group> <oifs-per-entry> <mdt-encap-entry> } { TABLE_configuredmax <max-mb>
<max-groups> <sources-per-group> <oifs-per-entry> } { TABLE_estimate <estimate-mb> <groups>
<sources-per-group> <oifs-per-entry> <mdt-encap-entry> } ]
```

### Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information  |
| routing                  | Display routing information  |
| ip                       | (Optional) Display IP information  |
| ipv4                     | (Optional) Display IP information  |
| multicast                | Display multicast information  |
| memory                   | Display mrrib memory information   |
| estimate                 | Display mrrib memory estimate  |
| groups                   | (Optional) Display mrrib memory estimate for # groups                        |
| <i>group-count</i>       | (Optional) Number of groups  |
| sources-per-group        | (Optional) Display mrrib memory estimate for # sources per group             |
| <i>source-count</i>      | (Optional) Number of sources per route                                       |
| oifs-per-entry           | (Optional) Display mrrib memory estimate for # oifs per (S,G) or (*,G) entry |
| <i>oif-count</i>         | (Optional) Number of oifs per entry  |
| mdt-encap-entries        | (Optional) Display mrrib memory estimate for # mdt encap entries             |
| <i>encap-entry-count</i> | (Optional) Number of mdt encap entries                                       |
| <i>__readonly__</i>      | (Optional)   |
| TABLE_currentmax         | (Optional)   |
| <i>max-mb</i>            | (Optional)   |
| <i>max-groups</i>        | (Optional)   |
| <i>sources-per-group</i> | (Optional)   |
| <i>oifs-per-entry</i>    | (Optional)   |
| TABLE_inuse              | (Optional)   |

|                          |            |
|--------------------------|------------|
| <i>used-kb</i>           | (Optional) |
| <i>alloc-count</i>       | (Optional) |
| <i>sources-per-group</i> | (Optional) |
| <i>oifs-per-entry</i>    | (Optional) |
| <i>mdt-encap-entry</i>   | (Optional) |
| TABLE_configuredmax      | (Optional) |
| <i>max-mb</i>            | (Optional) |
| <i>max-groups</i>        | (Optional) |
| <i>sources-per-group</i> | (Optional) |
| <i>oifs-per-entry</i>    | (Optional) |
| TABLE_estimate           | (Optional) |
| <i>estimate-mb</i>       | (Optional) |
| <i>groups</i>            | (Optional) |
| <i>sources-per-group</i> | (Optional) |
| <i>oifs-per-entry</i>    | (Optional) |
| <i>mdt-encap-entry</i>   | (Optional) |

**Command Mode**

- /exec

## show routing nhlfe

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] nhlfe [ stats ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__
TABLE_vrf <vrf-name-out> [ <nhlfe-owner> <nhlfe-refcount> { TABLE_nhlabel <nlabel-index> <nh-label>
} <nhlfe-is-vpn> <nhlfe-owner-index> ] <total-entries> ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information             |
| routing                  | Display routing information                 |
| vrf                      | (Optional) Display per-VRF information      |
| <i>vrf-name</i>          | (Optional) VRF name                         |
| <i>vrf-known-name</i>    | (Optional) Known VRF name                   |
| vrf-all                  | (Optional) Display information for all VRFs |
| ip                       | (Optional) Display IP information           |
| ipv4                     | (Optional) Display IP information           |
| unicast                  | (Optional) Display unicast information      |
| topology                 | (Optional) Display per-topology information |
| <i>topology-name</i>     | (Optional) topology name                    |
| nhlfe                    | Display URIB NHLFE db                       |
| stats                    | (Optional) Display statistics               |
| __readonly__             | (Optional)                                  |
| TABLE_vrf                | (Optional)                                  |
| <i>vrf-name-out</i>      | (Optional)                                  |
| <i>nhlfe-owner</i>       | (Optional)                                  |
| <i>nhlfe-refcount</i>    | (Optional)                                  |
| TABLE_nhlabel            | (Optional)                                  |
| <i>nlabel-index</i>      | (Optional)                                  |
| <i>nh-label</i>          | (Optional)                                  |
| <i>nhlfe-is-vpn</i>      | (Optional)                                  |
| <i>nhlfe-owner-index</i> | (Optional)                                  |

|                      |            |
|----------------------|------------|
| <i>total-entries</i> | (Optional) |
|----------------------|------------|

**Command Mode**

- /exec

## show routing recursive-next-hop

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] recursive-next-hop [ <ip-addr> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ]
[ __readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> TABLE_prefix <ipprefix> <uptime>
TABLE_clients <clientname> ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                      |
| routing               | Display routing information                          |
| vrf                   | (Optional) Display per-VRF information               |
| <i>vrf-name</i>       | (Optional) VRF name                                  |
| <i>vrf-known-name</i> | (Optional) Known VRF name                            |
| vrf-all               | (Optional) Display information for all VRFs          |
| ip                    | (Optional) Display IP information                    |
| ipv4                  | (Optional) Display IP information                    |
| unicast               | (Optional) Display unicast information               |
| topology              | (Optional) Display per-topology information          |
| recursive-next-hop    | Display recursive next-hop table                     |
| <i>topology-name</i>  | (Optional) topology name                             |
| <i>ip-addr</i>        | (Optional) Display single recursive virtual next-hop |
| <i>__readonly__</i>   | (Optional)   |
| TABLE_vrf             | (Optional)   |
| <i>vrf-name-out</i>   | (Optional)   |
| TABLE_addrf           | (Optional)   |
| <i>addrf</i>          | (Optional)   |
| TABLE_prefix          | (Optional)   |
| <i>ipprefix</i>       | (Optional)   |
| <i>uptime</i>         | (Optional)   |
| TABLE_clients         | (Optional)   |
| <i>clientname</i>     | (Optional)   |

**Command Mode**

- /exec

## show routing unresolved-next-hop

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] unresolved-next-hop { [ <ip-addr> [ detail ] ] | [ summary ] } [ vrf { <vrf-name> |
<vrf-known-name> | <vrf-all> } ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                     |
| routing               | Display routing information                         |
| unresolved-next-hop   | Display unresolved next-hop list                    |
| vrf                   | (Optional) Display per-VRF information              |
| <i>vrf-name</i>       | (Optional) VRF name                                 |
| <i>vrf-known-name</i> | (Optional) Known VRF name                           |
| vrf-all               | (Optional) Display information for all VRFs         |
| ip                    | (Optional) Display IP information                   |
| ipv4                  | (Optional) Display IP information                   |
| unicast               | (Optional) Display unicast information              |
| topology              | (Optional) Display per-topology information         |
| <i>topology-name</i>  | (Optional) topology name                            |
| <i>ip-addr</i>        | (Optional) Display single unresolved next-hop       |
| detail                | (Optional) Display prefixes for unresolved next-hop |
| summary               | (Optional) Show summary of resolve buffers          |

### Command Mode

- /exec

## show routing vxlan-hash peer-ip

```
show routing vxlan-hash peer-ip <peer-ip> <inner-src-mac> <inner-dst-mac> [ <inner-src-ip> <inner-dst-ip>
] [ ip-proto <ip-proto> ] [ <inner-src-port> <inner-dst-port> ] [ module <module-id> ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                   |
| routing               | Display routing information                       |
| vxlan-hash            | Display load-balancing information for vxlan      |
| peer-ip               | Peer IP address                                   |
| <i>peer-ip</i>        | Peer IP   |
| <i>inner-src-mac</i>  | Inner Source MAC Address                          |
| <i>inner-dst-mac</i>  | Inner Destination MAC Address                     |
| <i>inner-src-ip</i>   | (Optional) Inner Source IP                        |
| <i>inner-dst-ip</i>   | (Optional) Inner Destination IP                   |
| ip-proto              | (Optional) IP Protocol information for the packet |
| <i>ip-proto</i>       | (Optional) IP Protocol information for the packet |
| <i>inner-src-port</i> | (Optional) Inner Source-port                      |
| <i>inner-dst-port</i> | (Optional) Inner Destination-port                 |
| module                | (Optional) Module                                 |
| <i>module-id</i>      | (Optional) Module                                 |

### Command Mode

- /exec

# show running-config

show running-config

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| running-config | Current operating configuration |

## Command Mode

- /exec

# show running-config aaa

show running-config aaa [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| aaa            | Display aaa configuration                    |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config acllog

show running-config acllog [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| acllog         | show running config for acllog               |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config aclmgr

show running-config aclmgr [ all | inactive-if-config ]

## Syntax Description

|                    |  |
|--------------------|--|
| show               | Show running system information                      |
| running-config     | Current operating configuration                      |
| aclmgr             | show running config for aclmgr                       |
| all                | (Optional) show running config with defaults         |
| inactive-if-config | (Optional) show running config for inactive-policies |

## Command Mode

- /exec

# show running-config aclmgr active

```
show running-config aclmgr { active-if-config | all-if-config }
```

## Syntax Description

|                  |   |
|------------------|---|
| show             | Show running system information         |
| running-config   | Current operating configuration         |
| aclmgr           | show running config for aclmgr          |
| active-if-config | show running config for active-policies |
| all-if-config    | show running config for all-policies    |

## Command Mode

- /exec

# show running-config adjmgr

show running-config adjmgr [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operating configuration                      |
| adjmgr         | Display adjmgr information                           |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config all

show running-config all

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information               |
| running-config | Current operating configuration               |
| all            | Current operating configuration with defaults |

## Command Mode

- /exec

# show running-config amt

show running-config amt [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| amt            | Display amt information                              |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config arp

show running-config arp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operating configuration                      |
| arp            | Display arp information                              |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config assoc

show running-config assoc [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| assoc          | Original ID to Translated ID Association     |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config bfd

show running-config bfd [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| bfd            | show running config for bfd                  |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config bgp

show running-config bgp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| bgp            | Display bgp information                              |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config bloggerd

show running-config bloggerd [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| bloggerd       | Display bloggerd configuration               |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config callhome

show running-config callhome [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| callhome       | Display callhome configuration               |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config cdp

show running-config cdp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| cdp            | Display cdp configuration                    |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config cert-enroll

show running-config cert-enroll [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| cert-enroll    | Display certificates configuration           |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config cfs

show running-config cfs [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operation configuration              |
| cfs            | Display cfs configurations                   |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config clock\_manager

show running-config clock\_manager [ all ]

## Syntax Description

|                |  |
|----------------|--|
| running-config | Current operating configuration              |
| clock_manager  | show running config for clock manager        |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config config-profile

show running-config config-profile [ <all\_conf\_profile\_name> ]

## Syntax Description

|                              |  |
|------------------------------|--|
| show                         | Show running-cfg                         |
| running-config               | show running configuration               |
| config-profile               | Display port-profile configuration       |
| <i>all_conf_profile_name</i> | (Optional) Enter the name of the profile |

## Command Mode

- /exec

# show running-config controller

show running-config controller

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| running-config | Current operating configuration |
| controller     | controller                      |

## Command Mode

- /exec

# show running-config copp

show running-config copp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| copp           | Control-Plane Policing                       |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config dhcp

show running-config dhcp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operation configuration              |
| dhcp           | Display dhcp snoop configurations            |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config diagnostic

show running-config diagnostic [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| running-config | Current operating configuration                 |
| diagnostic     | Display diagnostic information                  |
| all            | (Optional) Display running config with defaults |

## Command Mode

- /exec

# show running-config diff

show running-config diff

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                               |
| running-config | Current operating configuration                               |
| diff           | Show the difference between running and startup configuration |

## Command Mode

- /exec

# show running-config dot1x

show running-config dot1x [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| dot1x          | Display dot1x configuration                  |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config eem

show running-config eem

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Show the system running configuration        |
| eem            | Show the event manager running configuration |

## Command Mode

- /exec

# show running-config eigrp

show running-config eigrp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| eigrp          | Display eigrp information                            |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config eltm

show running-config eltm

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| running-config | Current operation configuration |
| eltm           | Display eltm configurations     |

## Command Mode

- /exec

# show running-config evb

show running-config evb [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| running-config | Current operationg configuration                |
| evb            | EVB (Edge Virtual Bridge)                       |
| all            | (Optional) Display running config with defaults |

## Command Mode

- /exec

# show running-config exclude

show running-config exclude <feature-list> +

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                     |
| running-config      | Current operating configuration                     |
| exclude             | Exclude running configuration of specified features |
| <i>feature-list</i> | Exclude features                                    |

## Command Mode

- /exec

# show running-config exclude fabricpath

show running-config exclude fabricpath

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| running-config | Current operating configuration |
| exclude        | Exclude configurations          |
| fabricpath     | fabricpath information          |

## Command Mode

- /exec

# show running-config exclude fex

show running-config exclude fex [ all ]

## Syntax Description

|                |  |
|----------------|--|
| running-config | Current operating configuration              |
| exclude        | Exclude lines that match                     |
| fex            | show running config of fex                   |
| all            | (Optional) Show running config with defaults |

## Command Mode

- /exec

# show running-config expand-port-profile

show running-config expand-port-profile

## Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| running-config      | Current operating configuration |
| expand-port-profile | Expand port profile             |

## Command Mode

- /exec

# show running-config explicit

show running-config explicit

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                                     |
| running-config | Current operating configuration                                     |
| explicit       | show explicitly configured running configuration for all interfaces |

## Command Mode

- /exec

# show running-config fabric forwarding

show running-config fabric forwarding [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                         |
| running-config | Current operationg configuration                        |
| fabric         | Fabric  |
| forwarding     | Fabric Forwarding Protocol: Host Mobility Manager (HMM) |
| all            | (Optional) Display running config with defaults clis    |

## Command Mode

- /exec

# show running-config fabricpath

show running-config fabricpath [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| fabricpath     | fabricpath information                       |
| all            | (Optional) Show running config with defaults |

## Command Mode

- /exec

# show running-config fabricpath domain default

show running-config fabricpath domain default [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operating configuration                      |
| fabricpath     | fabricpath information                               |
| domain         | Enter fabricpath IS-IS domain configuration mode     |
| default        | default fabricpath domain                            |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config fabricpath switch-id

show running-config fabricpath switch-id [ all ]

## Syntax Description

|                |  |
|----------------|--|
| running-config | Current operating configuration              |
| fabricpath     | fabricpath information                       |
| switch-id      | fabricpath switch-id configuration           |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config fabricpath topology

show running-config fabricpath topology [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| fabricpath     | fabricpath Module Information                        |
| topology       | Fabricpath topology Information                      |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config fcoe\_mgr

show running-config fcoe\_mgr [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| fcoe_mgr       | Display fcoe_mgr configuration               |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config fex

show running-config fex [ all ]

## Syntax Description

|                |  |
|----------------|--|
| running-config | Current operating configuration              |
| fex            | show running config of fex                   |
| all            | (Optional) Show running config with defaults |

## Command Mode

- /exec

# show running-config glbp

show running-config glbp [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                     |
| running-config | Show the system running information                 |
| glbp           | Show GLBP running configuration                     |
| all            | (Optional) Show GLBP running configuration defaults |

## Command Mode

- /exec

# show running-config hsrp

show running-config hsrp [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show system information                             |
| running-config | System running configuration                        |
| hsrp           | HSRP running configuration                          |
| all            | (Optional) Show HSRP running configuration defaults |

## Command Mode

- /exec

# show running-config icmpv6

show running-config icmpv6 [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operating configuration                      |
| icmpv6         | Display icmpv6 information                           |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config igmp

show running-config igmp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| igmp           | Display igmp information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config imp

show running-config imp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show system information                            |
| running-config | System running configuration                       |
| imp            | IMP running configuration                          |
| all            | (Optional) Show IMP running configuration defaults |

## Command Mode

- /exec

# show running-config interface

show running-config interface [ <if0> ] [ all ] [ expand-port-profile ]

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                            |
| running-config      | Current operating configuration                            |
| interface           | Interface configuration                                    |
| <i>if0</i>          | (Optional) interface type and number in module/slot format |
| all                 | (Optional) show running config with defaults               |
| expand-port-profile | (Optional) Expand port profile                             |

## Command Mode

- /exec

# show running-config interface

show running-config interface <if0> [ membership ] [ expand-port-profile ]

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                 |
| running-config      | Current operating configuration                 |
| interface           | Interface configuration                         |
| <i>if0</i>          | interface type and number in module/slot format |
| membership          | (Optional) Show membership information          |
| expand-port-profile | (Optional) Expand port profile                  |

## Command Mode

- /exec

# show running-config interface defaults

show running-config interface <if0> defaults

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| running-config | Current operating configuration                 |
| interface      | Interface configuration                         |
| <i>if0</i>     | interface type and number in module/slot format |
| defaults       | show default running config                     |

## Command Mode

- /exec

# show running-config interface explicit

show running-config interface <if0> explicit

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| running-config | Current operating configuration                 |
| interface      | Interface configuration                         |
| <i>if0</i>     | interface type and number in module/slot format |
| explicit       | show default running config                     |

## Command Mode

- /exec

# show running-config ip

show running-config ip [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operating configuration                      |
| ip             | Display ip information                               |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config ipqos

show running-config ipqos [ all | inactive-if-config ]

## Syntax Description

|                    |  |
|--------------------|--|
| show               | Show running system information                      |
| running-config     | Current operating configuration                      |
| all                | (Optional) show running config with defaults         |
| inactive-if-config | (Optional) show running config for inactive-policies |

## Command Mode

- /exec

## show running-config ipqos active

```
show running-config ipqos { active-if-config | all-if-config }
```

### Syntax Description

|                  |   |
|------------------|---|
| show             | Show running system information         |
| running-config   | Current operating configuration         |
| active-if-config | show running config for active-policies |
| all-if-config    | show running config for all-policies    |

### Command Mode

- /exec

# show running-config ipv6

show running-config ipv6 [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operating configuration                      |
| ipv6           | Display ipv6 information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config isis

show running-config isis [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| isis           | Display isis information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config l3vm

show running-config l3vm [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| running-config | Current operationg configuration                |
| l3vm           | Display l3vm information                        |
| all            | (Optional) Display running config with defaults |

## Command Mode

- /exec

# show running-config ldap

show running-config ldap [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| ldap           | Display ldap configuration                   |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config license

show running-config license [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show   |
| running-config | show running system information              |
| license        | Display licensing configuration              |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config lisp

show running-config lisp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| lisp           | Display lisp information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config lldp

show running-config lldp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| lldp           | Display lldp configuration                   |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config macsec

show running-config macsec

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| running-config | Current operating configuration |
| macsec         | Show CTS information            |

## Command Mode

- /exec

# show running-config mmode

show running-config mmode [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                |
| running-config | Show running configuration                     |
| mmode          | Display maintenance mode running configuration |
| all            | (Optional) Show running config with defaults   |

## Command Mode

- /exec

# show running-config monitor

show running-config monitor [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| monitor        | Configure Ethernet SPAN sessions             |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config mpls ldp

show running-config mpls ldp [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| running-config | Current operating configuration                 |
| mpls           | Display MPLS status and configuration           |
| ldp            | Label Distribution Protocol                     |
| all            | (Optional) Display running-config with defaults |

## Command Mode

- /exec

# show running-config mpls static

show running-config mpls static [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| running-config | Current operating configuration                 |
| mpls           | Display MPLS status and configuration           |
| static         | Static Label Bindings                           |
| all            | (Optional) Display running-config with defaults |

## Command Mode

- /exec

# show running-config mpls strip

show running-config mpls strip [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                                 |
| mpls           | Configure MPLS settings   |
| strip          | Stripping of MPLS headers                                       |
| running-config | System running configuration                                    |
| all            | (Optional) Show running configuration for STRIPCL with defaults |

## Command Mode

- /exec

# show running-config mpls traffic-eng

show running-config mpls traffic-eng [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| mpls           | show running config for mpls features        |
| traffic-eng    | show running-config for Traffic Engineering  |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config msdp

show running-config msdp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| msdp           | Display msdp information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config nat

show running-config nat [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| nat            | Display NAT configuration                    |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config nbm

show running-config nbm

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                |
| running-config | Current operating configuration                |
| nbm            | show running config for Non Blocking Multicast |

## Command Mode

- /exec

## show running-config netflow

show running-config { netflow | nfm } [ all ]

### Syntax Description

|                |                                      |
|----------------|--------------------------------------|
| show           | Show running system information      |
| running-config | Show running system information      |
| netflow        | Show NetFlow configuration           |
| nfm            | Show NFM configuration               |
| all            | (Optional) Show config with defaults |

### Command Mode

- /exec

# show running-config ngoam

show running-config ngoam [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Show running system information              |
| ngoam          | ngoam configuration                          |
| all            | (Optional) Show running config with defaults |

## Command Mode

- /exec

# show running-config ntp

show running-config ntp [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show information                              |
| running-config | Show running system configuration             |
| ntp            | Show NTP information                          |
| all            | (Optional) Show all NTP running configuration |

## Command Mode

- /exec

# show running-config nv overlay

show running-config nv overlay [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show system information                            |
| running-config | System running configuration                       |
| nv             | NVE running configuration                          |
| overlay        | NVE running configuration                          |
| all            | (Optional) Show NVE running configuration defaults |

## Command Mode

- /exec

# show running-config openflow

show running-config openflow [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| openflow       | Show running config for OpenFlow agent       |
| all            | (Optional) Show running config with defaults |

## Command Mode

- /exec

# show running-config ospf

show running-config ospf [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| ospf           | Display ospf information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config ospfv3

show running-config ospfv3 [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| ospfv3         | Display ospfv3 information                           |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config otv-isis

show running-config otv-isis [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| otv-isis       | Display otv-isis information                         |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config otv

show running-config otv [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| otv            | Display otv information                              |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config param-list

show running-config param-list [ <plistname> ]

## Syntax Description

|                  |   |
|------------------|---|
| show             | Show running-cfg                            |
| running-config   | show running configuration                  |
| param-list       | Display param-list configuration            |
| <i>plistname</i> | (Optional) Enter the name of the param list |

## Command Mode

- /exec

# show running-config pim

show running-config pim [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| pim            | Display pim information                              |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config pim6

show running-config pim6 [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| pim6           | Display pim6 information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config port-profile

show running-config port-profile [ <all\_profile\_name> ]

## Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running-cfg                         |
| running-config          | show running configuration               |
| port-profile            | Display port-profile configuration       |
| <i>all_profile_name</i> | (Optional) Enter the name of the profile |

## Command Mode

- /exec

# show running-config port-security

show running-config port-security [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| port-security  | Display port-security configuration          |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config ptp

show running-config ptp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| running-config | Current operating configuration              |
| ptp            | show running config for ptp                  |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config radius

show running-config radius [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| radius         | Display radius configuration                 |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config res\_mgr

show running-config res\_mgr

## Syntax Description

|                |                                     |
|----------------|-------------------------------------|
| show           | Show running system information     |
| running-config | Current operating configuration     |
| res_mgr        | Show resource configuration for VDC |

## Command Mode

- /exec

# show running-config rip

show running-config rip [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| rip            | Display rip information                              |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config routing ip multicast

```
show running-config routing { ip | ipv4 } multicast [ all ]
```

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| routing        | Display routing information                          |
| ip             | Display IP information                               |
| ipv4           | Display IP information                               |
| multicast      | Display multicast information                        |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config routing ipv6 multicast

show running-config routing ipv6 multicast [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| routing        | Display routing information                          |
| ipv6           | Display IPv6 information                             |
| multicast      | Display m6rib information                            |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config rpm

show running-config rpm [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| running-config | Current operating configuration                 |
| rpm            | Display Route Policy Manager (RPM) information  |
| all            | (Optional) Display running config with defaults |

## Command Mode

- /exec

# show running-config rsvp

show running-config rsvp

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| running-config | Current operating configuration |
| rsvp           | Display RSVP status             |

## Command Mode

- /exec

# show running-config section

show running-config section <section>

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information  |
| running-config | Current operating configuration  |
| section        | show only a particular section of running-config (in format needed for 'merge config' command) |
| <i>section</i> | the section to show, a regular expression, (use a dot for a space)                             |

## Command Mode

- /exec

# show running-config security

show running-config security [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| security       | Display security configuration               |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config services

show running-config services

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show running-cfg                |
| running-config | show running system information |
| services       | services                        |

## Command Mode

- /exec

# show running-config sflow

show running-config sflow [ all ]

## Syntax Description

|                |  |
|----------------|--|
| running-config | Current operating configuration              |
| sflow          | show running config for sflow                |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config sla responder

show running-config sla responder

## Syntax Description

|                |                                      |
|----------------|--------------------------------------|
| show           | show running-cfg                     |
| running-config | show running system information      |
| sla            | Service Level Agreement (SLA)        |
| responder      | Show information about sla-responder |

## Command Mode

- /exec

# show running-config sla sender

show running-config sla sender

## Syntax Description

|                |                                   |
|----------------|-----------------------------------|
| show           | show running-cfg                  |
| running-config | show running system information   |
| sla            | Service Level Agreement (SLA)     |
| sender         | Show information about sla-sender |

## Command Mode

- /exec

# show running-config snmp

show running-config snmp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| snmp           | Display snmp configuration                   |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config spanning-tree

show running-config spanning-tree [ <all> | interface <interface\_range> ]

## Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information                             |
| running-config         | Current operating configuration                             |
| spanning-tree          | Show spanning tree information                              |
| <i>all</i>             | (Optional)  |
| interface              | (Optional) Specify an interface as a target for the command |
| <i>interface_range</i> | (Optional)  |

## Command Mode

- /exec

# show running-config switch

show running-config { switch-profile | include-switch-profile }

## Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information               |
| running-config         | Current operating configuration               |
| switch-profile         | Show switch-profile information               |
| include-switch-profile | Show running and switch-profile configuration |

## Command Mode

- /exec

# show running-config tacacs

show running-config tacacs + [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config track

show running-config track [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Show the system running information                  |
| track          | Show track running configuration                     |
| all            | (Optional) Show track running configuration defaults |

## Command Mode

- /exec

# show running-config udd

show running-config udd [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| udd            | Show udd configuration                       |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config vdc-all

show running-config vdc-all [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                           |
| running-config | Current operating configuration                           |
| vdc-all        | Display config from all VDC                               |
| all            | (Optional) Display config from all VDC including defaults |

## Command Mode

- /exec

# show running-config vdc

show running-config vdc [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| vdc            | Show Virtual Device Contexts                 |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config virtual-service

show running-config virtual-service

## Syntax Description

|                 |   |
|-----------------|---|
| show            | Show running system information                 |
| running-config  | Current operating configuration                 |
| virtual-service | Show running config for virtualization services |

## Command Mode

- /exec

# show running-config vlan

show running-config vlan <vlan-id> [ expand-port-profile ]

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                 |
| running-config      | Current operating configuration                 |
| vlan                | Vlan commands                                   |
| <i>vlan-id</i>      | VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |
| expand-port-profile | (Optional) Expand port profile                  |

## Command Mode

- /exec

# show running-config vlan

show running-config vlan <vlan-id> [ expand-port-profile ]

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                 |
| running-config      | Current operating configuration                 |
| vlan                | Vlan commands                                   |
| <i>vlan-id</i>      | VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |
| expand-port-profile | (Optional) Expand port profile                  |

## Command Mode

- /exec

# show running-config vlan

show running-config vlan

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| running-config | Current operating configuration |
| vlan           | Vlan commands                   |

## Command Mode

- /exec

# show running-config vlan\_mgr

show running-config vlan\_mgr

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| running-config | Current operating configuration |
| vlan_mgr       | Show vlan manager information   |

## Command Mode

- /exec

# show running-config vmtracker

show running-config vmtracker [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| vmtracker      | show running config for vmtracker            |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config vpc

show running-config vpc [ all ]

## Syntax Description

|                |  |
|----------------|--|
| running-config | Current operating configuration              |
| vpc            | show running config for vPC                  |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config vrf

show running-config vrf <vrf-cfg-name> [ all ]

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                      |
| running-config      | Current operationg configuration                     |
| vrf                 | Display VRF information                              |
| <i>vrf-cfg-name</i> | Configurable VRF name                                |
| all                 | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config vrf default

show running-config vrf default [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| vrf            | Display VRF information                              |
| default        | Known VRF name                                       |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config vrrp

show running-config vrrp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| vrrp           | Display VRRP running configuration           |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config vrrpv3

show running-config vrrpv3 [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| vrrpv3         | Show running config for VRRPv3               |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config vshd

show running-config vshd

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| running-config | Current operating configuration |
| vshd           | Show running config for vshd    |

## Command Mode

- /exec

# show running-config vtp

show running-config vtp [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                             |
| running-config | Current operating configuration                             |
| vtp            | Show running configuration for VTP                          |
| all            | (Optional) Show running configuration for VTP with defaults |

## Command Mode

- /exec

# show running-config wwnm

show running-config wwnm

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information           |
| running-config | Current running configuration             |
| wwnm           | Display WWN Manager running configuration |

## Command Mode

- /exec

```
show running-config wwnm
```