



S Show Commands

- [show scheduler config](#), on page 6
- [show scheduler job](#), on page 8
- [show scheduler logfile](#), on page 9
- [show scheduler schedule](#), on page 10
- [show segment-routing](#), on page 11
- [show segment-routing clients](#), on page 12
- [show segment-routing ipv4 connected-prefix-sid-map](#), on page 13
- [show sflow](#), on page 14
- [show sflow statistics](#), on page 15
- [show smart-channel](#), on page 16
- [show snapshots](#), on page 20
- [show snapshots compare](#), on page 21
- [show snapshots compare ipv4routes](#), on page 23
- [show snapshots compare ipv6routes](#), on page 24
- [show snapshots compare summary](#), on page 25
- [show snapshots dump](#), on page 26
- [show snapshots dump](#), on page 27
- [show snapshots sections](#), on page 28
- [show snmp-dhcp-relay drop statistics](#), on page 29
- [show snmp-dhcp-relay statistics pkt](#), on page 31
- [show snmp-ipv6-dhcp-relay drop statistics](#), on page 32
- [show snmp-ipv6-dhcp-relay statistics pkt](#), on page 34
- [show snmp](#), on page 35
- [show snmp community](#), on page 38
- [show snmp context](#), on page 39
- [show snmp engineID](#), on page 40
- [show snmp group](#), on page 41
- [show snmp host](#), on page 42
- [show snmp mib igmpCacheTable](#), on page 43
- [show snmp mib igmpInterfaceTable](#), on page 44
- [show snmp mib pimCandidateRPTTable](#), on page 46
- [show snmp mib pimComponentTable](#), on page 47
- [show snmp mib pimInterfaceTable](#), on page 48

- [show snmp mib pimIpMRouteNextHopTable](#), on page 49
- [show snmp mib pimIpMRouteTable](#), on page 50
- [show snmp mib pimJoinPruneInterval](#), on page 51
- [show snmp mib pimNeighborTable](#), on page 52
- [show snmp mib pimRPSetTable](#), on page 53
- [show snmp nms-statistics](#), on page 54
- [show snmp oid-statistics](#), on page 55
- [show snmp pss](#), on page 56
- [show snmp roleddebug](#), on page 57
- [show snmp sessions](#), on page 58
- [show snmp snmpv3stats](#), on page 59
- [show snmp source-interface](#), on page 60
- [show snmp trap](#), on page 61
- [show snmp user](#), on page 62
- [show sockets buffers](#), on page 63
- [show sockets client](#), on page 64
- [show sockets connection](#), on page 72
- [show sockets keychain-dump](#), on page 75
- [show sockets local-port-range](#), on page 76
- [show sockets performance](#), on page 77
- [show sockets secure-lxc](#), on page 78
- [show sockets statistics](#), on page 79
- [show sockets tcp keychain binding](#), on page 89
- [show spanning-tree](#), on page 90
- [show spanning-tree blockedports](#), on page 94
- [show spanning-tree bridge](#), on page 95
- [show spanning-tree inconsistentports](#), on page 97
- [show spanning-tree interface](#), on page 98
- [show spanning-tree interface](#), on page 99
- [show spanning-tree issu-impact](#), on page 102
- [show spanning-tree mst](#), on page 103
- [show spanning-tree mst configuration](#), on page 108
- [show spanning-tree mst configuration digest](#), on page 109
- [show spanning-tree mst interface](#), on page 110
- [show spanning-tree pathcost method](#), on page 113
- [show spanning-tree root](#), on page 114
- [show spanning-tree summary](#), on page 116
- [show spanning-tree summary totals](#), on page 119
- [show ssh key](#), on page 121
- [show ssh server](#), on page 122
- [show startup-config](#), on page 123
- [show startup-config aaa](#), on page 124
- [show startup-config aclmgr](#), on page 125
- [show startup-config adjmgr](#), on page 126
- [show startup-config amt](#), on page 127
- [show startup-config arp](#), on page 128

- [show startup-config bfd](#), on page 129
- [show startup-config bgp](#), on page 130
- [show startup-config bloggerd](#), on page 131
- [show startup-config callhome](#), on page 132
- [show startup-config catena](#), on page 133
- [show startup-config cdp](#), on page 134
- [show startup-config cert-enroll](#), on page 135
- [show startup-config cfs](#), on page 136
- [show startup-config config-profile](#), on page 137
- [show startup-config copp](#), on page 138
- [show startup-config diagnostic](#), on page 139
- [show startup-config dot1x](#), on page 140
- [show startup-config ecp](#), on page 141
- [show startup-config eem](#), on page 142
- [show startup-config eigrp](#), on page 143
- [show startup-config eltm](#), on page 144
- [show startup-config evb](#), on page 145
- [show startup-config exclude](#), on page 146
- [show startup-config expand-port-profile](#), on page 147
- [show startup-config fabric forwarding](#), on page 148
- [show startup-config fabric multicast](#), on page 149
- [show startup-config hw_telemetry](#), on page 150
- [show startup-config icam](#), on page 151
- [show startup-config igmp](#), on page 152
- [show startup-config imp](#), on page 153
- [show startup-config interface](#), on page 154
- [show startup-config interface](#), on page 155
- [show startup-config ip](#), on page 156
- [show startup-config ipqos](#), on page 157
- [show startup-config isis](#), on page 158
- [show startup-config l3vm](#), on page 159
- [show startup-config ldap](#), on page 160
- [show startup-config license](#), on page 161
- [show startup-config lisp](#), on page 162
- [show startup-config lldp](#), on page 163
- [show startup-config log](#), on page 164
- [show startup-config macsec](#), on page 165
- [show startup-config mmode](#), on page 166
- [show startup-config monitor](#), on page 167
- [show startup-config mpls ldp](#), on page 168
- [show startup-config mpls static](#), on page 169
- [show startup-config mpls traffic-eng](#), on page 170
- [show startup-config msdp](#), on page 171
- [show startup-config nat](#), on page 172
- [show startup-config nbm](#), on page 173
- [show startup-config ngoam](#), on page 174

- [show startup-config ntp](#), on page 175
- [show startup-config nxsdk](#), on page 176
- [show startup-config openflow](#), on page 177
- [show startup-config ospf](#), on page 178
- [show startup-config ospfv3](#), on page 179
- [show startup-config otv-isis](#), on page 180
- [show startup-config otv](#), on page 181
- [show startup-config param-list](#), on page 182
- [show startup-config pim](#), on page 183
- [show startup-config pim6](#), on page 184
- [show startup-config plb-services](#), on page 185
- [show startup-config poe](#), on page 186
- [show startup-config port-profile](#), on page 187
- [show startup-config port-security](#), on page 188
- [show startup-config ptp](#), on page 189
- [show startup-config radius](#), on page 190
- [show startup-config rip](#), on page 191
- [show startup-config rpm](#), on page 192
- [show startup-config rsvp](#), on page 193
- [show startup-config security](#), on page 194
- [show startup-config segment-routing](#), on page 195
- [show startup-config services](#), on page 196
- [show startup-config sflow](#), on page 197
- [show startup-config smart-channel](#), on page 198
- [show startup-config snmp](#), on page 199
- [show startup-config switch](#), on page 200
- [show startup-config tacacs](#), on page 201
- [show startup-config telemetry](#), on page 202
- [show startup-config track](#), on page 203
- [show startup-config udd](#), on page 204
- [show startup-config vdc-all](#), on page 205
- [show startup-config vdc](#), on page 206
- [show startup-config virtual-service](#), on page 207
- [show startup-config vlan](#), on page 208
- [show startup-config vlan](#), on page 209
- [show startup-config vpc](#), on page 210
- [show startup-config vrf](#), on page 211
- [show startup-config vrf default](#), on page 212
- [show startup-config vshd](#), on page 213
- [show startup-config vtp](#), on page 214
- [show summary](#), on page 215
- [show switch-profile](#), on page 216
- [show switch-profile](#), on page 217
- [show switch-profile buffer](#), on page 219
- [show switch-profile peer](#), on page 220
- [show switch-profile status](#), on page 221

- [show switch-scope controller](#), on page 223
- [show switching-mode](#), on page 224
- [show switching-mode fabric-speed](#), on page 225
- [show system auto-collect tech-support](#), on page 226
- [show system clis event-history](#), on page 227
- [show system config reload-pending](#), on page 228
- [show system cores](#), on page 229
- [show system error-id](#), on page 230
- [show system exception-info](#), on page 231
- [show system fast-reload stabilization-timer](#), on page 232
- [show system inband queuing statistics](#), on page 233
- [show system inband queuing status](#), on page 235
- [show system kgdb](#), on page 236
- [show system login](#), on page 237
- [show system login failures](#), on page 238
- [show system memory-thresholds](#), on page 239
- [show system mode](#), on page 240
- [show system pss shrink status](#), on page 241
- [show system redundancy ha status](#), on page 242
- [show system redundancy status](#), on page 243
- [show system reset-reason](#), on page 244
- [show system reset-reason](#), on page 245
- [show system reset-reason module](#), on page 246
- [show system resources](#), on page 247
- [show system resources](#), on page 248
- [show system resources module](#), on page 249
- [show system resources module all](#), on page 250
- [show system routing mode](#), on page 251
- [show system srg](#), on page 252
- [show system standby manual-boot](#), on page 253
- [show system switch-mode](#), on page 254
- [show system switchover impact](#), on page 255
- [show system uptime](#), on page 256
- [show system verify bios flash](#), on page 257
- [show system vlan reserved](#), on page 258

Command Mode

- /exec

show scheduler job

```
show scheduler job [ name <s0> ] [ __readonly__ [ { TABLE_schedulerjobs <jobname> [ <jobdata> ] } ] ]
```

Syntax Description

| | |
|---------------------|------------------------------------|
| show | Show running system information |
| scheduler | Show scheduler config or data |
| job | Display job information |
| name | (Optional) Specify the name of job |
| <i>s0</i> | (Optional) Specify the job name |
| __readonly__ | (Optional) |
| TABLE_schedulerjobs | (Optional) schedulerjobs |
| <i>jobname</i> | (Optional) job name |
| <i>jobdata</i> | (Optional) job data |

Command Mode

- /exec

show scheduler logfile

```
show scheduler logfile [ __readonly__ [ { TABLE_joblog <jobname> [ <jobstatus> ] [ <schedulename> ] [ <scheduleusername> ] [ <completiontime> ] [ <joboutput> } } ] ]
```

Syntax Description

| | |
|-------------------------|----------------------------------|
| show | Show running system information |
| scheduler | Show scheduler config or data |
| logfile | Display scheduler job output log |
| __readonly__ | (Optional) |
| TABLE_joblog | (Optional) jobs log |
| <i>jobname</i> | (Optional) job name |
| <i>jobstatus</i> | (Optional) job status |
| <i>schedulename</i> | (Optional) schedulename |
| <i>scheduleusername</i> | (Optional) scheduleusername |
| <i>completiontime</i> | (Optional) completiontime |
| <i>joboutput</i> | (Optional) joboutput |

Command Mode

- /exec

show segment-routing

```
show segment-routing [ detail ] [ __readonly__ <srvname> <state> <process_id> [ <srgb_min_label>
<srgb_max_label> <srgb_alloc_status> [ <oper_srgb_min_label> <oper_srgb_max_label> ] <cleanup_intvl>
<retry_intvl> [ <num_retries> ] [ <srgb_alloc_hdl> ] [ <cleanup_timer_state> <retry_timer_state> ] ] [
<ulib_reg_status> [ <ulib_pib_hdl> ] ] ]
```

Syntax Description

| | |
|----------------------------|---------------------------------------|
| show | Show running system information |
| segment-routing | Display segment-routing status info |
| detail | (Optional) Show detailed information |
| __readonly__ | (Optional) |
| <i>srvname</i> | (Optional) Service name |
| <i>state</i> | (Optional) Process state |
| <i>process_id</i> | (Optional) Process id |
| <i>srgb_min_label</i> | (Optional) Configured SRGB min label |
| <i>srgb_max_label</i> | (Optional) Configured SRGB max label |
| <i>srgb_alloc_status</i> | (Optional) SRGB allocation status |
| <i>oper_srgb_min_label</i> | (Optional) Operational SRGB min label |
| <i>oper_srgb_max_label</i> | (Optional) Operational SRGB max label |
| <i>cleanup_intvl</i> | (Optional) SRGB cleanup interval |
| <i>retry_intvl</i> | (Optional) SRGB alloc retry interval |
| <i>num_retries</i> | (Optional) SRGB alloc retries done |
| <i>srgb_alloc_hdl</i> | (Optional) SRGB alloc handle |
| <i>cleanup_timer_state</i> | (Optional) SRGB cleanup timer state |
| <i>retry_timer_state</i> | (Optional) SRGB retry timer state |
| <i>ulib_reg_status</i> | (Optional) ULIB registration done |
| <i>ulib_pib_hdl</i> | (Optional) ULIB PIB handle |

Command Mode

- /exec

show segment-routing clients

```
show segment-routing clients [ __readonly__ [ { TABLE_client <client_pib_name> <client_pib_index>
<client_uuid> <client_pid> <client_sap> [ { TABLE_tib <vrf_name> <tib_name> [ <pfxsid_cleanup_status>
] } ] } ] <total_clients> ]
```

Syntax Description

| | |
|------------------------------|---------------------------------------|
| show | Show running system information |
| segment-routing | Display segment-routing status info |
| clients | Display client info |
| <i>__readonly__</i> | (Optional) |
| TABLE_client | (Optional) |
| <i>client_pib_name</i> | (Optional) Client name |
| <i>client_pib_index</i> | (Optional) Client pib index |
| <i>client_uuid</i> | (Optional) Client UUID |
| <i>client_pid</i> | (Optional) Client PID |
| <i>client_sap</i> | (Optional) Client SAP |
| TABLE_tib | (Optional) |
| <i>vrf_name</i> | (Optional) VRF name |
| <i>tib_name</i> | (Optional) Table name |
| <i>pfxsid_cleanup_status</i> | (Optional) Prefixsid Cleanup Pending? |
| <i>total_clients</i> | (Optional) Total number of clients |

Command Mode

- /exec

show segment-routing ipv4 connected-prefix-sid-map

```
show segment-routing ipv4 connected-prefix-sid-map [ __readonly__ [ { TABLE_tib <vrf_name> <tib_name>
[ { TABLE_pfxsid <prefix> <index> <absolute> <range> <valid> } ] } ] ] ]
```

Syntax Description

| | |
|--------------------------|--|
| show | Show running system information |
| segment-routing | Display segment-routing status info |
| ipv4 | Display info for IPv4 address-family |
| connected-prefix-sid-map | Display prefix-sid mapping |
| <i>__readonly__</i> | (Optional) |
| <i>TABLE_tib</i> | (Optional) |
| <i>vrf_name</i> | (Optional) Vrf name |
| <i>tib_name</i> | (Optional) Table name |
| <i>TABLE_pfxsid</i> | (Optional) |
| <i>prefix</i> | (Optional) Prefix |
| <i>index</i> | (Optional) Segment ID |
| <i>absolute</i> | (Optional) Segment ID is absolute? |
| <i>range</i> | (Optional) Range of Segment IDs from index |
| <i>valid</i> | (Optional) Segment ID is valid? |

Command Mode

- /exec

show sflow

```
show sflow [ __readonly__ <sampling-rate> <max-sampled-size> <counter-poll-interval> <max-datagram-size>
<collector-ip> <collector-vrf> <source-ip> <collector-port> <agent-ip> <data-source-interface> ]
```

Syntax Description

| | |
|------------------------------|------------------------------------|
| show | Show running system information |
| sflow | Display sFlow global configuration |
| <i>__readonly__</i> | (Optional) Read only |
| <i>sampling-rate</i> | (Optional) Sampling Rate |
| <i>max-sampled-size</i> | (Optional) Max Sampled Size |
| <i>counter-poll-interval</i> | (Optional) Counter Poll Interval |
| <i>max-datagram-size</i> | (Optional) Max Datagram Size |
| <i>collector-ip</i> | (Optional) Collector IP |
| <i>collector-vrf</i> | (Optional) Collector VRF |
| <i>source-ip</i> | (Optional) Source IP |
| <i>collector-port</i> | (Optional) Collector Port |
| <i>agent-ip</i> | (Optional) Agent IP |
| <i>data-source-interface</i> | (Optional) Data Source Interface |

Command Mode

- /exec

show sflow statistics

```
show sflow statistics [ __readonly__ <total-packets> <total-samples> <processed-samples> <dropped-samples>
<rate-limiter-drops> <dropped-sflow-samples> <sent-datagrams> <dropped-datagrams> ]
```

Syntax Description

| | |
|------------------------------|------------------------------------|
| show | Show running system information |
| sflow | Display sFlow global configuration |
| statistics | Display sFlow statistics |
| <i>__readonly__</i> | (Optional) Read only |
| <i>total-packets</i> | (Optional) Total Packets |
| <i>total-samples</i> | (Optional) Total Samples |
| <i>processed-samples</i> | (Optional) Processed Samples |
| <i>dropped-samples</i> | (Optional) Dropped Samples |
| <i>rate-limiter-drops</i> | (Optional) Rate-Limiter Drops |
| <i>dropped-sflow-samples</i> | (Optional) Dropped sflow Samples |
| <i>sent-datagrams</i> | (Optional) Sent Datagrams |
| <i>dropped-datagrams</i> | (Optional) Dropped Datagrams |

Command Mode

- /exec

| | |
|----------------------------|---------------------------------|
| <i>reason</i> | (Optional) inactive reason |
| <i>vrf_name</i> | (Optional) VRF-Name |
| <i>userACL</i> | (Optional) user access-list |
| TABLE_device | (Optional) |
| <i>device_grp</i> | (Optional) service device group |
| <i>dg_probe</i> | (Optional) probe type |
| <i>dg_probe_port</i> | (Optional) probe port |
| TABLE_route_map | (Optional) |
| <i>route_map</i> | (Optional) service route map |
| <i>interface</i> | (Optional) interface |
| <i>r_status</i> | (Optional) route map status |
| <i>int_track_id</i> | (Optional) interface track id |
| TABLE_vip | (Optional) |
| <i>vip_ip</i> | (Optional) vip ip |
| <i>vip_probe</i> | (Optional) vip protocol |
| <i>vip_port</i> | (Optional) vip port |
| TABLE_vip_node | (Optional) |
| <i>vip_node</i> | (Optional) service node ip |
| <i>vip_nodev6</i> | (Optional) service node IPv6 |
| <i>vip_config</i> | (Optional) node config |
| <i>vip_weight</i> | (Optional) node weight |
| <i>vip_status</i> | (Optional) node status |
| <i>vip_node_probe</i> | (Optional) node probe type |
| <i>vip_node_probe_port</i> | (Optional) node probe port |
| <i>vip_node_probe_ip</i> | (Optional) node probe ip |
| <i>vip_track_id</i> | (Optional) node track id |
| <i>vip_ip_sla_id</i> | (Optional) node ip sla id |
| TABLE_vip_standby | (Optional) |
| <i>vip_standby_ip</i> | (Optional) standby node ip |

| | |
|-------------------------------|------------------------------------|
| <i>vip_standby_ipv6</i> | (Optional) standby node ipv6 |
| <i>vip_standby_config</i> | (Optional) standby node config |
| <i>vip_standby_weight</i> | (Optional) standby node weight |
| <i>vip_standby_status</i> | (Optional) standby node status |
| <i>vip_standby_probe</i> | (Optional) standby node probe type |
| <i>vip_standby_probe_port</i> | (Optional) standby node probe port |
| <i>vip_standby_probe_ip</i> | (Optional) standby node probe ip |
| <i>vip_standby_track_id</i> | (Optional) standby node track id |
| <i>vip_standby_sla_id</i> | (Optional) standby node sla id |
| TABLE_vip_acl | (Optional) |
| <i>vip_access_list</i> | (Optional) access list |
| TABLE_node | (Optional) |
| <i>node</i> | (Optional) service node ip |
| <i>nodev6</i> | (Optional) service node IPv6 |
| <i>config</i> | (Optional) node config |
| <i>weight</i> | (Optional) node weight |
| <i>status</i> | (Optional) node status |
| <i>node_probe</i> | (Optional) node probe type |
| <i>node_probe_port</i> | (Optional) node probe port |
| <i>node_probe_ip</i> | (Optional) node probe ip |
| <i>track_id</i> | (Optional) node track id |
| <i>ip_sla_id</i> | (Optional) node ip sla id |
| TABLE_standby | (Optional) |
| <i>standby_ip</i> | (Optional) standby node ip |
| <i>standby_ipv6</i> | (Optional) standby node ipv6 |
| <i>standby_config</i> | (Optional) standby node config |
| <i>standby_weight</i> | (Optional) standby node weight |
| <i>standby_status</i> | (Optional) standby node status |
| <i>standby_probe</i> | (Optional) standby node probe type |

| | |
|---------------------------|------------------------------------|
| <i>standby_probe_port</i> | (Optional) standby node probe port |
| <i>standby_probe_ip</i> | (Optional) standby node probe ip |
| <i>standby_track_id</i> | (Optional) standby node track id |
| <i>standby_sla_id</i> | (Optional) standby node sla id |
| TABLE_acl | (Optional) |
| <i>access_list</i> | (Optional) access list |

Command Mode

- /exec

show snapshots

show snapshots [__readonly__ TABLE_snapshot <snap_name> <snap_ctime> <description>]

Syntax Description

| | |
|--------------------|---------------------------------|
| show | Show running system information |
| snapshots | Snapshots present on the switch |
| __readonly__ | (Optional) |
| TABLE_snapshot | (Optional) |
| <i>snap_name</i> | (Optional) snapshot name |
| <i>snap_ctime</i> | (Optional) snapshot create time |
| <i>description</i> | (Optional) snapshot description |

Command Mode

- /exec

show snapshots compare

```
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> [ __readonly__ TABLE_feature
<feat_name> [ <feat_state1> <feat_state2> ] [ TABLE_element <elemkey1> <elemval1> [ <elemkey2>
<elemval2> ] [ <elemkey3> <elemval3> ] [ <elemkey4> <elemval4> ] [ <elemstate1> <elemstate2> ] [
TABLE_value <tag> <val1> <val2> ] [ TABLE_subrow <subrowkey> <subrowval> [ <substate1> <substate2>
] [ TABLE_subvalue <tag> <val1> <val2> ] ] ] ]
```

Syntax Description

| | |
|-------------------------|---|
| show | Show running system information |
| snapshots | Snapshots present on the switch |
| compare | Compare two snapshots |
| <i>snapshot-name-T1</i> | Name of a snapshot taken at interval T1 |
| <i>snapshot-name-T2</i> | Name of a snapshot taken at interval T2 |
| <i>__readonly__</i> | (Optional) |
| TABLE_feature | (Optional) |
| <i>feat_name</i> | (Optional) feature name |
| <i>feat_state1</i> | (Optional) feature state in snapshot1 |
| <i>feat_state2</i> | (Optional) feature state in snapshot2 |
| TABLE_element | (Optional) |
| <i>elemkey1</i> | (Optional) element key1 |
| <i>elemval1</i> | (Optional) element value1 |
| <i>elemkey2</i> | (Optional) element key2 |
| <i>elemval2</i> | (Optional) element value2 |
| <i>elemkey3</i> | (Optional) element key3 |
| <i>elemval3</i> | (Optional) element value3 |
| <i>elemkey4</i> | (Optional) element key4 |
| <i>elemval4</i> | (Optional) element value4 |
| <i>elemstate1</i> | (Optional) element state in snapshot 1 |
| <i>elemstate2</i> | (Optional) element state in snapshot 2 |
| TABLE_value | (Optional) |
| <i>tag</i> | (Optional) element tag |

| | |
|------------------|---|
| <i>val1</i> | (Optional) element value for tag in snapshot1 |
| <i>val2</i> | (Optional) element value for tag in snapshot2 |
| TABLE_subrow | (Optional) |
| <i>subrowkey</i> | (Optional) subrow key |
| <i>subrowval</i> | (Optional) subrow value |
| <i>substate1</i> | (Optional) subrow state in snapshot 1 |
| <i>substate2</i> | (Optional) subrow state in snapshot 2 |
| TABLE_subvalue | (Optional) |
| <i>tag</i> | (Optional) subrow tag |
| <i>val1</i> | (Optional) subrow value for tag in snapshot1 |
| <i>val2</i> | (Optional) subrow value for tag in snapshot2 |

Command Mode

- /exec

show snapshots compare ipv4routes

```
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> ipv4routes [ __readonly__
TABLE_summary <item_desc> <summary_val1> <summary_val2> [ <changed> ] [ TABLE_prefix <prefix>
<missing_snapshot> ] ]
```

Syntax Description

| | |
|-------------------------|---|
| show | Show running system information |
| snapshots | Snapshots present on the switch |
| compare | Compare two snapshots |
| <i>snapshot-name-T1</i> | Name of a snapshot taken at interval T1 |
| <i>snapshot-name-T2</i> | Name of a snapshot taken at interval T2 |
| ipv4routes | Compare ipv4 route information |
| <i>__readonly__</i> | (Optional) |
| TABLE_summary | (Optional) |
| <i>item_desc</i> | (Optional) item description |
| <i>summary_val1</i> | (Optional) summary value in snapshot1 |
| <i>summary_val2</i> | (Optional) summary value in snapshot2 |
| <i>changed</i> | (Optional) changed flag |
| TABLE_prefix | (Optional) |
| <i>prefix</i> | (Optional) route prefix |
| <i>missing_snapshot</i> | (Optional) missing in snapshot name |

Command Mode

- /exec

show snapshots compare ipv6routes

```
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> ipv6routes [ __readonly__
TABLE_summary <item_desc> <summary_val1> <summary_val2> [ <changed> ] [ TABLE_prefix <prefix>
<missing_snapshot> ] ]
```

Syntax Description

| | |
|-------------------------|---|
| show | Show running system information |
| snapshots | Snapshots present on the switch |
| compare | Compare two snapshots |
| <i>snapshot-name-T1</i> | Name of a snapshot taken at interval T1 |
| <i>snapshot-name-T2</i> | Name of a snapshot taken at interval T2 |
| ipv6routes | Compare ipv6 route information |
| <i>__readonly__</i> | (Optional) |
| TABLE_summary | (Optional) |
| <i>item_desc</i> | (Optional) item description |
| <i>summary_val1</i> | (Optional) summary value in snapshot1 |
| <i>summary_val2</i> | (Optional) summary value in snapshot2 |
| <i>changed</i> | (Optional) changed flag |
| TABLE_prefix | (Optional) |
| <i>prefix</i> | (Optional) route prefix |
| <i>missing_snapshot</i> | (Optional) missing in snapshot name |

Command Mode

- /exec

show snapshots compare summary

```
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> summary [ __readonly__
TABLE_summary <item_desc> <summary_val1> <summary_val2> [ <changed> ] ]
```

Syntax Description

| | |
|-------------------------|---|
| show | Show running system information |
| snapshots | Snapshots present on the switch |
| compare | Compare two snapshots |
| <i>snapshot-name-T1</i> | Name of a snapshot taken at interval T1 |
| <i>snapshot-name-T2</i> | Name of a snapshot taken at interval T2 |
| summary | Compare summary information |
| <i>__readonly__</i> | (Optional) |
| <i>TABLE_summary</i> | (Optional) |
| <i>item_desc</i> | (Optional) item description |
| <i>summary_val1</i> | (Optional) summary value in snapshot1 |
| <i>summary_val2</i> | (Optional) summary value in snapshot2 |
| <i>changed</i> | (Optional) changed flag |

Command Mode

- /exec

show snapshots dump

show snapshots dump <snapshot-name> [__readonly__ TABLE_snapshot <file_name> <snap_name>]

Syntax Description

| | |
|----------------------|-----------------------------------|
| show | Show running system information |
| snapshots | Snapshots present on the switch |
| dump | Dump contents of snapshot |
| <i>snapshot-name</i> | Name of a snapshot |
| __readonly__ | (Optional) |
| TABLE_snapshot | (Optional) |
| <i>file_name</i> | (Optional) snapshot XML file name |
| <i>snap_name</i> | (Optional) snapshot name |

Command Mode

- /exec

show snapshots dump

```
show snapshots dump <snapshot-name> <section-name> [ __readonly__ TABLE_snapshot <file_name>
<snap_name> ]
```

Syntax Description

| | |
|---------------------------|-----------------------------------|
| show | Show running system information |
| snapshots | Snapshots present on the switch |
| dump | Dump contents of snapshot |
| <i>snapshot-name</i> | Name of a snapshot |
| <i>section-name</i> | Name of snapshot section |
| <code>__readonly__</code> | (Optional) |
| TABLE_snapshot | (Optional) |
| <i>file_name</i> | (Optional) snapshot XML file name |
| <i>snap_name</i> | (Optional) snapshot name |

Command Mode

- /exec

show snapshots sections

show snapshots sections [*__readonly__* *TABLE_snapsection* <sectname> <sectcmd> <sectrow> <sectkey1> <sectkey2>]

Syntax Description

| | |
|--------------------------|--|
| show | Show running system information |
| snapshots | Snapshots present on the switch |
| sections | User-specified snapshot sections |
| <i>__readonly__</i> | (Optional) |
| <i>TABLE_snapsection</i> | (Optional) |
| <i>sectname</i> | (Optional) snapshot section name |
| <i>sectcmd</i> | (Optional) snapshot section show command |
| <i>sectrow</i> | (Optional) snapshot section row id |
| <i>sectkey1</i> | (Optional) snapshot section key1 |
| <i>sectkey2</i> | (Optional) snapshot section key2 |

Command Mode

- /exec

show snmp-dhcp-relay drop statistics

```
show snmp-dhcp-relay drop statistics [ interface <intf> | ifindex <intf-in> ] [ __readonly__ {
TABLE-cdrDropStatsTable <intf-out> <relay_disable> <invalid_msg_type> <intf_err> <tx_sock_err>
<tx_fail_client_intf> <unknown_op_intf> <l3_unknown_op_intf> <max_hops> <opt82_fail> <malformed>
<untrusted_relay_intf> <mct_drop> } ]
```

Syntax Description

| | |
|-----------------------------|--|
| show | Show running system information |
| snmp-dhcp-relay | DHCP Relay |
| drop | Statistics related to DHCP drop statistics |
| statistics | Statistics related to DHCP |
| interface | (Optional) input interface |
| <i>intf</i> | (Optional) interface |
| ifindex | (Optional) interface index value |
| <i>__readonly__</i> | (Optional) Read only |
| TABLE-cdrDropStatsTable | (Optional) |
| <i>intf-in</i> | (Optional) Interface Index |
| <i>intf-out</i> | (Optional) Table index |
| <i>relay_disable</i> | (Optional) relay was disabled |
| <i>invalid_msg_type</i> | (Optional) invalid message type |
| <i>intf_err</i> | (Optional) interface error |
| <i>tx_sock_err</i> | (Optional) failed to send at server |
| <i>tx_fail_client_intf</i> | (Optional) failed to send to client |
| <i>unknown_op_intf</i> | (Optional) unknown output interface |
| <i>l3_unknown_op_intf</i> | (Optional) unknown vrf or interface |
| <i>max_hops</i> | (Optional) max hops exceeded |
| <i>opt82_fail</i> | (Optional) Option82 validation failed |
| <i>malformed</i> | (Optional) malformed pkts |
| <i>untrusted_relay_intf</i> | (Optional) untrusted interface |
| <i>mct_drop</i> | (Optional) dropped on MCT |

Command Mode

- /exec

show snmp-dhcp-relay statistics pkt

```
show snmp-dhcp-relay statistics { [ interface <intf> | ifindex <intf-in> ] pkt-type <type-in> } [ __readonly__
{ TABLE-cdrStatsTable <intf-out> <type-out> <rx_pkts> <tx_pkts> <drops> } ]
```

Syntax Description

| | |
|---------------------|----------------------------------|
| show | Show running system information |
| snmp-dhcp-relay | DHCP Relay |
| statistics | Statistics related to DHCP |
| interface | (Optional) input interface |
| <i>intf</i> | (Optional) interface |
| ifindex | (Optional) Interface Index Value |
| pkt-type | DHCP Packet type |
| __readonly__ | (Optional) Read only |
| TABLE-cdrStatsTable | (Optional) |
| <i>intf-in</i> | (Optional) table index - ifindex |
| <i>intf-out</i> | (Optional) table index |
| <i>type-in</i> | table index - packet type |
| <i>type-out</i> | (Optional) table index |
| <i>rx_pkts</i> | (Optional) received pkt count |
| <i>tx_pkts</i> | (Optional) transmitted pkt count |
| <i>drops</i> | (Optional) dropped pkt count |

Command Mode

- /exec

show snmp-ipv6-dhcp-relay drop statistics

```
show snmp-ipv6-dhcp-relay drop statistics [ interface <intf> | ifindex <intf-in> ] [ __readonly__ {
TABLE-cdrIpv6DropStatsTable <intf-out> <relay_disabled> <max_hops> <invalid_pkt> <unknown_op_intf>
<invalid_vrf> <opt_insert_failed> <dir_reply_frm_server> <ipv6_not_configured> <intf_err>
<vpn_option_disabled> <ipv6_ext_hdr_present> <mct_drop> } ]
```

Syntax Description

| | |
|-----------------------------|--|
| show | Show running system information |
| snmp-ipv6-dhcp-relay | IPv6 DHCP Relay |
| drop | Statistics related to IPv6 DHCP drop statistics |
| statistics | Statistics related to IPv6 DHCP |
| interface | (Optional) input interface |
| <i>intf</i> | (Optional) interface |
| ifindex | (Optional) interface index value |
| <i>__readonly__</i> | (Optional) Read only |
| TABLE-cdrIpv6DropStatsTable | (Optional) |
| <i>intf-in</i> | (Optional) Interface Index |
| <i>intf-out</i> | (Optional) Table index |
| <i>relay_disabled</i> | (Optional) DHCPv6 Relay is disabled |
| <i>max_hops</i> | (Optional) Max hops exceeded |
| <i>invalid_pkt</i> | (Optional) Packet validation failed |
| <i>unknown_op_intf</i> | (Optional) Unknown output interface |
| <i>invalid_vrf</i> | (Optional) Invalid VRF |
| <i>opt_insert_failed</i> | (Optional) Option Insertion Failed |
| <i>dir_reply_frm_server</i> | (Optional) Direct Replies (Recnfg/Adv/Reply) from server |
| <i>ipv6_not_configured</i> | (Optional) IPv6 addr not configured |
| <i>intf_err</i> | (Optional) Interface error |
| <i>vpn_option_disabled</i> | (Optional) VPN Option Disabled |
| <i>ipv6_ext_hdr_present</i> | (Optional) IPv6 extn headers present |
| <i>mct_drop</i> | (Optional) DHCP request dropped on MCT |

Command Mode

- /exec

show snmp-ipv6-dhcp-relay statistics pkt

```
show snmp-ipv6-dhcp-relay statistics { [ interface <intf> | ifindex <intf-in> ] pkt-type <type-in> } [
__readonly__ { TABLE-cdrIpv6StatsTable <intf-out> <type-out> <rx_pkts> <tx_pkts> <drops> } ]
```

Syntax Description

| | |
|-------------------------|----------------------------------|
| show | Show running system information |
| snmp-ipv6-dhcp-relay | IPv6 DHCP Relay |
| statistics | Statistics related to IPv6 DHCP |
| interface | (Optional) input interface |
| <i>intf</i> | (Optional) interface |
| ifindex | (Optional) Interface Index Value |
| pkt-type | DHCP Packet type |
| <i>__readonly__</i> | (Optional) Read only |
| TABLE-cdrIpv6StatsTable | (Optional) |
| <i>intf-in</i> | (Optional) table index - ifindex |
| <i>intf-out</i> | (Optional) table index |
| <i>type-in</i> | table index - packet type |
| <i>type-out</i> | (Optional) table index |
| <i>rx_pkts</i> | (Optional) received pkt count |
| <i>tx_pkts</i> | (Optional) transmitted pkt count |
| <i>drops</i> | (Optional) dropped pkt count |

Command Mode

- /exec

show snmp

```
show snmp [ __readonly__ <sys_contact> <sys_location> <snmp_input_packets> <bad_snmp_version>
<unknown_community_name> <illegal_community_name> <encoding_Err> <req_var_nums> <alt_var_nums>
<get_req_in> <getnext_req_in> <set_req_in> <noname_pdu_in> <badval_pdu_in> <ro_pdu_in>
<genral_err_in> <get_resp_in> <unknown_ctx> <snmp_output_packets> <trap_pdu> <toobig_err>
<noname_pdu_out> <badval_pdu_out> <genral_err_out> <get_req_out> <getnext_req_out> <set_req_out>
<get_resp_out> <silent_drops> [ <max_pkt_size> ] [ { TABLE_snmp_community <community_name>
<grouporaccess> <context> <aclfilter> } ] [ { TABLE_snmp_users <user> <auth> <priv> [ { TABLE_groups
<group> } ] [ <acl_filter> ] [ <engineID> } ] ] <tcp_auth_status> [ <port_mon_status> [ <policy_name>
<pol_admin_status> <plo_oper_status> <pol_port_type> [ TABLE_policies <counter> <threshold> <interval>
<rising_threshold> <rising_event> <falling_threshold> <falling_event> <pmon_config> ] ] ] [ <protocol_status>
] [ { TABLE_snmp_contexts <context_name> <proto_instanceid> <vrf> <topology> [ <vlan> | <MST> } ]
] ]
```

Syntax Description

| | |
|-------------------------------|--|
| show | Show running system information |
| snmp | show snmp information |
| <i>__readonly__</i> | (Optional) Read Only |
| TABLE_snmp_community | (Optional) Table that displays the community information |
| TABLE_snmp_users | (Optional) Table that displays the user information |
| TABLE_groups | (Optional) Table that displays the group information |
| TABLE_policies | (Optional) Table that displays the policy information |
| TABLE_snmp_contexts | (Optional) Table that displays the context information |
| <i>sys_contact</i> | (Optional) System Contact |
| <i>sys_location</i> | (Optional) System Location |
| <i>snmp_input_packets</i> | (Optional) SNMP input packets |
| <i>bad_snmp_version</i> | (Optional) bad snmp version in Input SNMP packets |
| <i>unknown_community_name</i> | (Optional) unknown community name in Input SNMP packets |
| <i>illegal_community_name</i> | (Optional) Illegal community name in Input SNMP packets |
| <i>encoding_Err</i> | (Optional) Encoding Errors in Input SNMP packets |
| <i>req_var_nums</i> | (Optional) number of requested variables |
| <i>alt_var_nums</i> | (Optional) number of altered variable |
| <i>get_req_in</i> | (Optional) GET request in Input SNMP packets |
| <i>getnext_req_in</i> | (Optional) GET-NEXT request in Input SNMP packets |

| | |
|----------------------------|---|
| <i>set_req_in</i> | (Optional) SET request in Input SNMP packets |
| <i>noname_pdu_in</i> | (Optional) NONAME PDU in Input SNMP packets |
| <i>badval_pdu_in</i> | (Optional) Bad value PDU in Input SNMP packets |
| <i>ro_pdu_in</i> | (Optional) Read only PDU in Input SNMP packets |
| <i>genral_err_in</i> | (Optional) Genral Error in Input SNMP packets |
| <i>get_resp_in</i> | (Optional) Get Response PDU in Input SNMP packets |
| <i>unknown_ctx</i> | (Optional) Unknown context Name in Input SNMP packets |
| <i>snmp_output_packets</i> | (Optional) SNMP Output Packets |
| <i>trap_pdu</i> | (Optional) Trap PDU in Output SNMP Packets |
| <i>toobig_err</i> | (Optional) Too Big errors in Output SNMP Packets |
| <i>noname_pdu_out</i> | (Optional) |
| <i>badval_pdu_out</i> | (Optional) NoName PDU in Output SNMP Packets |
| <i>genral_err_out</i> | (Optional) Genral Error in Output SNMP Packets |
| <i>get_req_out</i> | (Optional) GET request in Output SNMP Packets |
| <i>getnext_req_out</i> | (Optional) GET-NEXTrequest in Output SNMP Packets |
| <i>set_req_out</i> | (Optional) SET request in Output SNMP packets |
| <i>get_resp_out</i> | (Optional) Get Response PDU in Output SNMP Packets |
| <i>silent_drops</i> | (Optional) Silent Drop packets |
| <i>max_pkt_size</i> | (Optional) Maximum packet size |
| <i>community_name</i> | (Optional) community name |
| <i>grouporaccess</i> | (Optional) Group name |
| <i>context</i> | (Optional) context Name |
| <i>aclfilter</i> | (Optional) Acl filter name |
| <i>user</i> | (Optional) User name |
| <i>auth</i> | (Optional) Auth type |
| <i>priv</i> | (Optional) Priv Type |
| <i>group</i> | (Optional) Group name |
| <i>acl_filter</i> | (Optional) acl filter |
| <i>engineID</i> | (Optional) engine id for the user |

| | |
|--------------------------|--------------------------------------|
| <i>tcp_auth_status</i> | (Optional) TCP authentication status |
| <i>port_mon_status</i> | (Optional) Port monitor status |
| <i>policy_name</i> | (Optional) policy name |
| <i>pol_admin_status</i> | (Optional) Policy Admin status |
| <i>plo_oper_status</i> | (Optional) Police oper status |
| <i>pol_port_type</i> | (Optional) policy port type |
| <i>counter</i> | (Optional) counters |
| <i>threshold</i> | (Optional) Threshold |
| <i>interval</i> | (Optional) Interval |
| <i>rising_threshold</i> | (Optional) Rising threshold |
| <i>rising_event</i> | (Optional) Rising Event |
| <i>falling_threshold</i> | (Optional) Falling threshold |
| <i>falling_event</i> | (Optional) Falling Event |
| <i>pmon_config</i> | (Optional) PMON configured |
| <i>protocol_status</i> | (Optional) Protocol Enable status |
| <i>context_name</i> | (Optional) context name |
| <i>proto_instanceid</i> | (Optional) Protocol instance ID |
| <i>vrf</i> | (Optional) VRF Name |
| <i>topology</i> | (Optional) Topology |
| <i>vlan</i> | (Optional) VLAN name |
| <i>MST</i> | (Optional) MST name |

Command Mode

- /exec

show snmp community

```
show snmp community [ __readonly__ { TABLE_snmp_community <community_name> <grouporaccess>
<context> <aclfilter> } ]
```

Syntax Description

| | |
|-----------------------|--|
| show | Show running system information |
| snmp | show snmp information |
| community | show snmp community strings |
| __readonly__ | (Optional) Read Only |
| TABLE_snmp_community | (Optional) contains all snmp community names |
| <i>community_name</i> | (Optional) community name |
| <i>grouporaccess</i> | (Optional) group or access name |
| <i>context</i> | (Optional) context name |
| <i>aclfilter</i> | (Optional) acl filter name |

Command Mode

- /exec

show snmp context

```
show snmp context [ __readonly__ { TABLE_snmp_contexts <context_name> <proto_instanceid> <vrf>
<topology> [ <vlan> | <MST> ] } ]
```

Syntax Description

| | |
|-------------------------|--|
| show | Show running system information |
| snmp | show snmp information |
| context | show snmp context mapping entries |
| __readonly__ | (Optional) |
| TABLE_snmp_contexts | (Optional) All SNMP Contexts Entries |
| <i>context_name</i> | (Optional) SNMP context Name |
| <i>proto_instanceid</i> | (Optional) Name of the protocol instance |
| <i>vrf</i> | (Optional) VRF name |
| <i>topology</i> | (Optional) Name of the Topology |
| <i>vlan</i> | (Optional) VLAN Name |
| <i>MST</i> | (Optional) |

Command Mode

- /exec

show snmp engineID

show snmp engineID [__readonly__ <engineIDHex> <engineIDDec>]

Syntax Description

| | |
|--------------------|-------------------------------------|
| show | Show running system information |
| snmp | show snmp information |
| engineID | show snmp engineID |
| __readonly__ | (Optional) |
| <i>engineIDHex</i> | (Optional) SNMP engineID in HEX |
| <i>engineIDDec</i> | (Optional) SNMP engineID in Decimal |

Command Mode

- /exec

show snmp group

```
show snmp group [ __readonly__ { TABLE_role <role_name> <role_description> [ <attribute_scope> ] [
<permit_vsan> ] [ <permit_vlan> ] [ <permit_vlan_id> ] [ <permit_interface> ] [ <permit_interface_slot> ]
[ <permit_vrf> ] [ TABLE_vrf<permit_vrf_name> ] [ { TABLE_rule [ <rule_num> ] [ <rule_action> ] {
<rule_permission> | <rule_permission_mds> } [ <rule_featuretype> ] [ <rule_entity> ] } } } ]
```

Syntax Description

| | |
|------------------------------|---------------------------------|
| show | Show running system information |
| snmp | show snmp information |
| group | show snmp group |
| __readonly__ | (Optional) Read Only |
| TABLE_role | (Optional) Table displays role |
| <i>role_name</i> | (Optional) Role Name |
| <i>role_description</i> | (Optional) Role Description |
| <i>attribute_scope</i> | (Optional) Role scope |
| <i>permit_vsan</i> | (Optional) permitted vsan |
| <i>permit_vlan</i> | (Optional) |
| <i>permit_vlan_id</i> | (Optional) |
| <i>permit_interface</i> | (Optional) |
| <i>permit_interface_slot</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 snmp host

```
show snmp host [ __readonly__ { TABLE_host <host><port><version><level><type><secname> [ [ <vrf>
] [ TABLE_vrf_filters <vrf_filter> ] [ <src_intf> ] ] } ]
```

Syntax Description

| | |
|--------------------------|--|
| show | Show running system information |
| snmp | show snmp information |
| host | show snmp hosts |
| <i>__readonly__</i> | (Optional) Read Only |
| <i>TABLE_host</i> | (Optional) displays the list of hosts configured for snmp requests |
| <i>TABLE_vrf_filters</i> | (Optional) displays the host vrf filters |
| <i>vrf</i> | (Optional) VRF Name |
| <i>vrf_filter</i> | (Optional) vrf filters |
| <i>src_intf</i> | (Optional) source interface |

Command Mode

- /exec

show snmp mib igmpCacheTable

```
show snmp mib igmpCacheTable [ <igmpCacheAddress-in> ] [ <igmpCacheIfIndex-in> ] [ __readonly__
TABLE_igmpCacheTable <igmpCacheAddress-out> <igmpCacheIfIndex-out> <igmpCacheSelf>
<igmpCacheLastReporter> <igmpCacheUpTime> <igmpCacheExpiryTime> <igmpCacheStatus>
<igmpCacheVersion1HostTimer> ]
```

Syntax Description

| | |
|-----------------------------------|--|
| show | Show running system information |
| snmp | show snmp |
| mib | show mib tables |
| igmpCacheTable | show mib table igmpCacheTable |
| <i>igmpCacheAddress-in</i> | (Optional) igmpCacheAddress |
| <i>igmpCacheIfIndex-in</i> | (Optional) igmpCacheIfIndex |
| <i>__readonly__</i> | (Optional) |
| TABLE_igmpCacheTable | (Optional) |
| <i>igmpCacheAddress-out</i> | (Optional) mib table index igmpCacheAddress |
| <i>igmpCacheIfIndex-out</i> | (Optional) mib table index igmpCacheIfIndex |
| <i>igmpCacheSelf</i> | (Optional) mib object igmpCacheSelf |
| <i>igmpCacheLastReporter</i> | (Optional) mib object igmpCacheLastReporter |
| <i>igmpCacheUpTime</i> | (Optional) mib object igmpCacheUpTime |
| <i>igmpCacheExpiryTime</i> | (Optional) mib object igmpCacheExpiryTime |
| <i>igmpCacheStatus</i> | (Optional) mib object igmpCacheStatus |
| <i>igmpCacheVersion1HostTimer</i> | (Optional) mib object igmpCacheVersion1HostTimer |

Command Mode

- /exec

show snmp mib igmpInterfaceTable

```
show snmp mib igmpInterfaceTable [ <igmpInterfaceIfIndex-in> ] [ __readonly__ TABLE_igmpInterfaceTable
<igmpInterfaceIfIndex-out> <igmpInterfaceQueryInterval> <igmpInterfaceStatus> <igmpInterfaceVersion>
<igmpInterfaceQuerier> <igmpInterfaceQueryMaxResponseTime> <igmpInterfaceQuerierUpTime>
<igmpInterfaceQuerierExpiryTime> <igmpInterfaceVersion1QuerierTimer>
<igmpInterfaceWrongVersionQueries> <igmpInterfaceJoins> <igmpInterfaceProxyIfIndex>
<igmpInterfaceGroups> <igmpInterfaceRobustness> <igmpInterfaceLastMembQueryIntvl> ]
```

Syntax Description

| | |
|--|---|
| show | Show running system information |
| snmp | show snmp |
| mib | show mib tables |
| igmpInterfaceTable | show mib table igmpInterfaceTable |
| <i>igmpInterfaceIfIndex-in</i> | (Optional) igmpInterfaceIndex |
| <i>__readonly__</i> | (Optional) |
| <i>TABLE_igmpInterfaceTable</i> | (Optional) |
| <i>igmpInterfaceIfIndex-out</i> | (Optional) mib table index igmpInterfaceIfIndex |
| <i>igmpInterfaceQueryInterval</i> | (Optional) mib object igmpInterfaceQueryInterval |
| <i>igmpInterfaceStatus</i> | (Optional) mib object igmpInterfaceStatus |
| <i>igmpInterfaceVersion</i> | (Optional) mib object igmpInterfaceVersion |
| <i>igmpInterfaceQuerier</i> | (Optional) mib object igmpInterfaceQuerier |
| <i>igmpInterfaceQueryMaxResponseTime</i> | (Optional) mib object igmpInterfaceQueryMaxResponseTime |
| <i>igmpInterfaceQuerierUpTime</i> | (Optional) mib object igmpInterfaceQuerierUpTime |
| <i>igmpInterfaceQuerierExpiryTime</i> | (Optional) mib object igmpInterfaceQuerierExpiryTime |
| <i>igmpInterfaceVersion1QuerierTimer</i> | (Optional) mib object igmpInterfaceVersion1QuerierTimer |
| <i>igmpInterfaceWrongVersionQueries</i> | (Optional) mib object igmpInterfaceWrongVersionQueries |
| <i>igmpInterfaceJoins</i> | (Optional) mib object igmpInterfaceJoins |
| <i>igmpInterfaceProxyIfIndex</i> | (Optional) mib object igmpInterfaceProxyIfIndex |
| <i>igmpInterfaceGroups</i> | (Optional) mib object igmpInterfaceGroups |
| <i>igmpInterfaceRobustness</i> | (Optional) mib object igmpInterfaceRobustness |
| <i>igmpInterfaceLastMembQueryIntvl</i> | (Optional) mib object igmpInterfaceLastMembQueryIntvl |

Command Mode

- /exec

show snmp mib pimCandidateRPTable

```
show snmp mib pimCandidateRPTable [ <pimCandidateRPGroupAddress-in> ] [
<pimCandidateRPGroupMask-in> ] [ __readonly__ TABLE_pimCandidateRPTable
<pimCandidateRPGroupAddress-out> <pimCandidateRPGroupMask-out> <pimCandidateRPAAddress>
<pimCandidateRPRowStatus> ]
```

Syntax Description

| | |
|---------------------------------------|---|
| show | Show running system information |
| snmp | show snmp |
| mib | show mib tables |
| pimCandidateRPTable | show mib table pimCandidateRPTable |
| <i>pimCandidateRPGroupAddress-in</i> | (Optional) pimCandidateRPGroupAddress |
| <i>pimCandidateRPGroupMask-in</i> | (Optional) pimCandidateRPGroupMask |
| <i>__readonly__</i> | (Optional) |
| TABLE_pimCandidateRPTable | (Optional) |
| <i>pimCandidateRPGroupAddress-out</i> | (Optional) mib table index pimCandidateRPGroupAddress |
| <i>pimCandidateRPGroupMask-out</i> | (Optional) mib table index pimCandidateRPGroupMask |
| <i>pimCandidateRPAAddress</i> | (Optional) mib object pimCandidateRPAAddress |
| <i>pimCandidateRPRowStatus</i> | (Optional) mib object pimCandidateRPRowStatus |

Command Mode

- /exec

show snmp mib pimComponentTable

```
show snmp mib pimComponentTable [ <pimComponentIndex-in> ] [ __readonly__
TABLE_pimComponentTable <pimComponentIndex-out> <pimComponentBSRAddress>
<pimComponentBSRExpiryTime> <pimComponentCRPHoldTime> <pimComponentStatus> ]
```

Syntax Description

| | |
|----------------------------------|---|
| show | Show running system information |
| snmp | show snmp |
| mib | show mib tables |
| pimComponentTable | show mib table pimComponentTable |
| <i>pimComponentIndex-in</i> | (Optional) pimComponentIndex |
| <i>__readonly__</i> | (Optional) |
| <i>TABLE_pimComponentTable</i> | (Optional) |
| <i>pimComponentIndex-out</i> | (Optional) mib table index pimComponentIndex |
| <i>pimComponentBSRAddress</i> | (Optional) mib object pimComponentBSRAddress |
| <i>pimComponentBSRExpiryTime</i> | (Optional) mib object pimComponentBSRExpiryTime |
| <i>pimComponentCRPHoldTime</i> | (Optional) mib object pimComponentCRPHoldTime |
| <i>pimComponentStatus</i> | (Optional) mib object pimComponentStatus |

Command Mode

- /exec

show snmp mib pimInterfaceTable

```
show snmp mib pimInterfaceTable [ <pimInterfaceIfIndex-in> ] [ __readonly__ TABLE_pimInterfaceTable
<pimInterfaceIfIndex-out> <pimInterfaceAddress> <pimInterfaceNetMask> <pimInterfaceMode>
<pimInterfaceDR> <pimInterfaceHelloInterval> <pimInterfaceStatus> <pimInterfaceJoinPruneInterval>
<pimInterfaceCBSRPreference> ]
```

Syntax Description

| | |
|--------------------------------------|---|
| show | Show running system information |
| snmp | show snmp |
| mib | show mib tables |
| pimInterfaceTable | show mib table pimInterfaceTable |
| <i>pimInterfaceIfIndex-in</i> | (Optional) pimInterfaceIndex |
| <i>__readonly__</i> | (Optional) |
| <i>TABLE_pimInterfaceTable</i> | (Optional) |
| <i>pimInterfaceIfIndex-out</i> | (Optional) mib table index pimInterfaceIfIndex |
| <i>pimInterfaceAddress</i> | (Optional) mib object pimInterfaceAddress |
| <i>pimInterfaceNetMask</i> | (Optional) mib object pimInterfaceNetMask |
| <i>pimInterfaceMode</i> | (Optional) mib object pimInterfaceMode |
| <i>pimInterfaceDR</i> | (Optional) mib object pimInterfaceDR |
| <i>pimInterfaceHelloInterval</i> | (Optional) mib object pimInterfaceHelloInterval |
| <i>pimInterfaceStatus</i> | (Optional) mib object pimInterfaceStatus |
| <i>pimInterfaceJoinPruneInterval</i> | (Optional) mib object pimInterfaceJoinPruneInterval |
| <i>pimInterfaceCBSRPreference</i> | (Optional) mib object pimInterfaceCBSRPreference |

Command Mode

- /exec

show snmp mib pimIpMRouteNextHopTable

```
show snmp mib pimIpMRouteNextHopTable [ <ipMRouteNextHopGroup-in> <ipMRouteNextHopSource-in>
<ipMRouteNextHopSourceMask-in> <ipMRouteNextHopIfIndex-in> <ipMRouteNextHopAddress-in> ] [
__readonly__ TABLE_pimIpMRouteNextHopTable <ipMRouteNextHopGroup-out>
<ipMRouteNextHopSource-out> <ipMRouteNextHopSourceMask-out> <ipMRouteNextHopIfIndex-out>
<ipMRouteNextHopAddress-out> <pimIpMRouteNextHopPruneReason> ]
```

Syntax Description

| | |
|--------------------------------------|--|
| show | Show running system information |
| snmp | show snmp |
| mib | show mib tables |
| pimIpMRouteNextHopTable | show mib table pimIpMRouteNextHopTable |
| <i>ipMRouteNextHopGroup-in</i> | (Optional) ipMRouteNextHopGroup |
| <i>ipMRouteNextHopSource-in</i> | (Optional) ipMRouteNextHopSource |
| <i>ipMRouteNextHopSourceMask-in</i> | (Optional) ipMRouteNextHopSourceMask |
| <i>ipMRouteNextHopIfIndex-in</i> | (Optional) ipMRouteNextHopIfIndex |
| <i>ipMRouteNextHopAddress-in</i> | (Optional) ipMRouteNextHopAddress |
| <i>__readonly__</i> | (Optional) |
| <i>TABLE_pimIpMRouteNextHopTable</i> | (Optional) |
| <i>ipMRouteNextHopGroup-out</i> | (Optional) mib table index ipMRouteNextHopGroup |
| <i>ipMRouteNextHopSource-out</i> | (Optional) mib table index pimComponentBSRAAddress |
| <i>ipMRouteNextHopSourceMask-out</i> | (Optional) mib table index pimComponentBSRExpiryTime |
| <i>ipMRouteNextHopIfIndex-out</i> | (Optional) mib table index pimComponentCRPHoldTime |
| <i>ipMRouteNextHopAddress-out</i> | (Optional) mib table index pimComponentStatus |
| <i>pimIpMRouteNextHopPruneReason</i> | (Optional) mib object pimIpMRouteNextHopPruneReason |

Command Mode

- /exec

show snmp mib pimIpMRouteTable

```
show snmp mib pimIpMRouteTable [ <ipMRouteGroup-in> ] [ <ipMRouteSource-in> ] [
<ipMRouteSourceMask-in> ] [ __readonly__ TABLE_pimIpMRouteTable <ipMRouteGroup-out>
<ipMRouteSource-out> <ipMRouteSourceMask-out> <pimIpMRouteUpstreamAssertTimer>
<pimIpMRouteAssertMetric> <pimIpMRouteAssertMetricPref> <pimIpMRouteAssertRPTBit>
<pimIpMRouteFlags> ]
```

Syntax Description

| | |
|---------------------------------------|--|
| show | Show running system information |
| snmp | show snmp |
| mib | show mib tables |
| pimIpMRouteTable | show mib table pimIpMRouteTable |
| <i>ipMRouteGroup-in</i> | (Optional) ipMRouteGroup |
| <i>ipMRouteSource-in</i> | (Optional) ipMRouteSource |
| <i>ipMRouteSourceMask-in</i> | (Optional) ipMRouteSourceMask |
| <i>__readonly__</i> | (Optional) |
| TABLE_pimIpMRouteTable | (Optional) |
| <i>ipMRouteGroup-out</i> | (Optional) mib table index ipMRouteGroup-out |
| <i>ipMRouteSource-out</i> | (Optional) mib table index ipMRouteSource-out |
| <i>ipMRouteSourceMask-out</i> | (Optional) mib table index ipMRouteSourceMask-out |
| <i>pimIpMRouteUpstreamAssertTimer</i> | (Optional) mib object pimIpMRouteUpstreamAssertTimer |
| <i>pimIpMRouteAssertMetric</i> | (Optional) mib object pimIpMRouteAssertMetric |
| <i>pimIpMRouteAssertMetricPref</i> | (Optional) mib object pimIpMRouteAssertMetricPref |
| <i>pimIpMRouteAssertRPTBit</i> | (Optional) mib object pimIpMRouteAssertRPTBit |
| <i>pimIpMRouteFlags</i> | (Optional) mib object pimIpMRouteFlags |

Command Mode

- /exec

show snmp mib pimJoinPruneInterval

```
show snmp mib pimJoinPruneInterval [ __readonly__ <pimJoinPruneInterval> ]
```

Syntax Description

| | |
|-----------------------------|--|
| show | Show running system information |
| snmp | show snmp |
| mib | show mib tables |
| pimJoinPruneInterval | show mib scalar pimJoinPruneInterval |
| __readonly__ | (Optional) Read Only |
| <i>pimJoinPruneInterval</i> | (Optional) mib object pimJoinPruneInterval |

Command Mode

- /exec

show snmp mib pimNeighborTable

```
show snmp mib pimNeighborTable [ <pimNeighborAddress-in> ] [ __readonly__ TABLE_pimNeighborTable
<pimNeighborAddress-out> <pimNeighborIfIndex> <pimNeighborUpTime> <pimNeighborExpiryTime> ]
```

Syntax Description

| | |
|-------------------------------|---|
| show | Show running system information |
| snmp | show snmp |
| mib | show mib tables |
| pimNeighborTable | show mib table pimNeighborTable |
| <i>pimNeighborAddress-in</i> | (Optional) pimNeighborAddress |
| <i>__readonly__</i> | (Optional) |
| <i>TABLE_pimNeighborTable</i> | (Optional) |
| <i>pimNeighborAddress-out</i> | (Optional) mib table index pimNeighborAddress |
| <i>pimNeighborIfIndex</i> | (Optional) mib object pimNeighborIfIndex |
| <i>pimNeighborUpTime</i> | (Optional) mib object pimNeighborUpTime |
| <i>pimNeighborExpiryTime</i> | (Optional) mib object pimNeighborExpiryTime |

Command Mode

- /exec

show snmp mib pimRPSetTable

```
show snmp mib pimRPSetTable [ <pimRPSetComponent-in> ] [ <pimRPSetGroupAddress-in> ] [
<pimRPSetGroupMask-in> ] [ <pimRPSetAddress-in> ] [ __readonly__ TABLE_pimRPSetTable
<pimRPSetGroupAddress-out> <pimRPSetGroupMask-out> <pimRPSetAddress-out> <pimRPSetHoldTime>
<pimRPSetExpiryTime> <pimRPSetComponent-out> ]
```

Syntax Description

| | |
|---------------------------------|---|
| show | Show running system information |
| snmp | show snmp |
| mib | show mib tables |
| pimRPSetTable | show mib table pimRPSetTable |
| <i>pimRPSetComponent-in</i> | (Optional) pimRPSetComponent |
| <i>pimRPSetGroupAddress-in</i> | (Optional) pimRPSetGroupAddress |
| <i>pimRPSetGroupMask-in</i> | (Optional) pimRPSetGroupMask |
| <i>pimRPSetAddress-in</i> | (Optional) pimRPSetAddress |
| <i>__readonly__</i> | (Optional) |
| TABLE_pimRPSetTable | (Optional) |
| <i>pimRPSetGroupAddress-out</i> | (Optional) mib table index pimRPSetGroupAddress |
| <i>pimRPSetGroupMask-out</i> | (Optional) mib table index pimRPSetGroupMask |
| <i>pimRPSetAddress-out</i> | (Optional) mib table index pimRPSetAddress |
| <i>pimRPSetHoldTime</i> | (Optional) mib object pimRPSetHoldTime |
| <i>pimRPSetExpiryTime</i> | (Optional) mib object pimRPSetExpiryTime |
| <i>pimRPSetComponent-out</i> | (Optional) mib table index pimRPSetComponent |

Command Mode

- /exec

show snmp nms-statistics

```
show snmp nms-statistics [ __readonly__ <header> [ <nms_stats> ] ]
```

Syntax Description

| | |
|---------------------|----------------------------------|
| show | Show running system information |
| snmp | Show snmp information |
| nms-statistics | Show SNMP NMS statistics |
| <i>__readonly__</i> | (Optional) Read Only |
| <i>header</i> | (Optional) NMS Statistics header |
| <i>nms_stats</i> | (Optional) NMS Statistics |

Command Mode

- /exec

show snmp oid-statistics

```
show snmp oid-statistics [ last-access ] [ __readonly__ <header> { TABLE_snmp_gen <oid_stats> |
TABLE_snmp_la <oid_last_access_stats> } ]
```

Syntax Description

| | |
|------------------------------|---|
| show | Show running system information |
| snmp | Show snmp information |
| oid-statistics | Show SNMP oid statistics |
| last-access | (Optional) Show SNMP oid statistics of last-access |
| __readonly__ | (Optional) Read Only |
| <i>header</i> | (Optional) OID Statistics header |
| TABLE_snmp_gen | (Optional) contains all snmp oid statistics |
| <i>oid_stats</i> | (Optional) OID Statistics |
| TABLE_snmp_la | (Optional) contains all snmp oid last access statistics |
| <i>oid_last_access_stats</i> | (Optional) OID Last Access Statistics |

Command Mode

- /exec

show snmp pss

show snmp pss

Syntax Description

| | |
|------|---------------------------------|
| show | Show running system information |
| snmp | show snmp information |
| pss | show SNMP pss |

Command Mode

- /exec

show snmp roleddebug

show snmp roleddebug

Syntax Description

| | |
|------------|---------------------------------|
| show | Show running system information |
| snmp | show snmp information |
| roleddebug | show SNMP roleddebug |

Command Mode

- /exec

show snmp sessions

```
show snmp sessions [ __readonly__ { TABLE_session <dest> } ]
```

Syntax Description

| | |
|---------------|---------------------------------------|
| show | Show running system information |
| snmp | show snmp information |
| sessions | show snmp sessions |
| __readonly__ | (Optional) Read Only |
| TABLE_session | (Optional) table displays destination |
| <i>dest</i> | (Optional) destination |

Command Mode

- /exec

show snmp snmpv3stats

show snmp snmpv3stats

Syntax Description

| | |
|-------------|---------------------------------|
| show | Show running system information |
| snmp | show snmp information |
| snmpv3stats | show SNMP snmpdebug |

Command Mode

- /exec

show snmp source-interface

```
show snmp source-interface [ __readonly__ { <trap_srcintf> <informs_srcintf> } ]
```

Syntax Description

| | |
|------------------------|--|
| show | Show running system information |
| snmp | show snmp information |
| source-interface | show source-interface through which notifications are sent |
| __readonly__ | (Optional) Read Only |
| <i>trap_srcintf</i> | (Optional) Displays the source interface for traps |
| <i>informs_srcintf</i> | (Optional) Displays the source interface for informs |

Command Mode

- /exec

show snmp trap

```
show snmp trap [ __readonly__ { TABLE_snmp_trap <trap_type><description><isEnabled> } ]
```

Syntax Description

| | |
|-----------------|--------------------------------------|
| show | Show running system information |
| snmp | show snmp information |
| trap | show snmp traps |
| __readonly__ | (Optional) Read Only |
| TABLE_snmp_trap | (Optional) All snmp traps configured |

Command Mode

- /exec

show snmp user

```
show snmp user [ <s0> [ engineID <s1> ] ] [ __readonly__ [ { TABLE_snmp_users <user> <auth> <priv> [
{ TABLE_groups <group> } ] [ <acl_filter> ] [ <engineID> } ] ] ]
```

Syntax Description

| | |
|-------------------|--|
| show | Show running system information |
| snmp | show snmp information |
| user | show SNMPv3 users |
| <i>s0</i> | (Optional) Name of the user |
| engineID | (Optional) engineID |
| <i>s1</i> | (Optional) Target's SNMP engineID(colon separated) for SNMPv3 inform |
| __readonly__ | (Optional) Read Only |
| TABLE_snmp_users | (Optional) table displays the snmp users |
| TABLE_groups | (Optional) table displays the gropus for specific user |
| <i>user</i> | (Optional) user name |
| <i>auth</i> | (Optional) auth type |
| <i>priv</i> | (Optional) priv type |
| <i>group</i> | (Optional) group belongs to |
| <i>acl_filter</i> | (Optional) acl filter |
| <i>engineID</i> | (Optional) engineID for specific user |

Command Mode

- /exec

show sockets buffers

```
show sockets buffers [ { [ all <count> ] [ free <count> ] } ]
```

Syntax Description

| | |
|--------------|--|
| show | Show running system information |
| sockets | Display sockets status and configuration |
| buffers | Display detailed buffer statistics |
| all | (Optional) Dump buffers from ALL list |
| free | (Optional) Dump buffers from FREE list |
| <i>count</i> | (Optional) Number of buffers to dump |

Command Mode

- /exec

show sockets client

```
show sockets client { [ pid <pid> ] [ tcp | udp | raw ] [ detail ] [ kstack-ns-all ] } [ __readonly__ [
TABLE_total_clients [ <socket-type> <total-clients> ] [ <no-total-clients> ] ] [ TABLE_cl_sk { <prefix>
<client-name> <pid> <No-of-clients> } [ <fast-tcp-mts-ctrl-q> ] [ { <cancel-requests> <cancel-unblocks>
<cancel-misses> <select-drops> <select-wakes> } ] [ TABLE_det [ { <fd> <client-id> [ <mts-sap> } ] ] ] [
TABLE_st [ <soc-calls> ] [ <bind-calls> ] [ <listen-calls> ] [ <accept-calls> ] [ <acc-dispat-err> ] [
<connect-calls> ] [ <connec-dispatch> ] [ <recvmmsg-dispatch> ] [ <recv-dis-nblock> ] [ <recvmmsg-call> ] [
<brecv-dispatch> ] [ <fsendmsg-calls> ] [ <sendmsg-dispatch> ] [ <sendmsg-calls> ] [ <msendmsg-calls> ] [
<select-calls> ] [ <select-dispatch> ] [ <select-need-work> ] [ <sh-calls> ] [ <close-calls> ] [ <fcntl-calls>
] [ <iocntl-calls> ] [ <setsock-calls> ] [ <getsock-calls> ] [ <getsockname-calls> ] [ <getpeer-calls> ] [
<fork-calls> ] [ <execve-calls> ] [ <dup-calls> ] [ <can-calls> ] [ <can-miss> ] [ <can-unblk-sele> ] [
<soc-ha-calls> ] [ <pfork-client> ] [ <read-fd> ] [ <write-fd> ] [ <read-fd-set> ] [ <write-fd-set> ] [
<fast-tcp-send-req> ] [ <fast-tcp-send-suc> ] [ <fast-tcp-ack> ] ] [ TABLE_sterr [ <sock-err> ] [
<sock-nodev-err> ] [ <bind-err> ] [ <lis-err> ] [ <accept-err> ] [ <connect-err> ] [ <recvmmsg-err> ] [
<brcvmmsg-err> ] [ <fsendmsg-err> ] [ <sendmsg-err> ] [ <msndmsg-err> ] [ <select-err> ] [ <sel-nomem-err>
] [ <shut-err> ] [ <close-err> ] [ <fcntl-err> ] [ <iocntl-err> ] [ <setsoc-err> ] [ <getsoc-err> ] [ <getsocname-err>
] [ <getpeername-err> ] [ <fork-err> ] [ <execve-err> ] [ <dup-err> ] [ <psoc-vrf-err> ] [ <psoc-nosoc-err> ] [
<psoc-sock-null-err> ] [ <psoc-socre-err> ] [ <pbind-nsoc-err> ] [ <pbd-getsocaddr> ] [ <pbind-sobind-err>
] [ <plisten-nsoc-err> ] [ <plis-solis-err> ] [ <pacc-nsoc-err> ] [ <pacc-no-nsoc-err> ] [ <pacc-soc-null-err>
] [ <pacc-copy-err> ] [ <pacc-no-acc-err> ] [ <pacc-woublo-err> ] [ <pacc-connabo-err> ] [
<pacc-cond-wait-err> ] [ <pacc-so-err-err> ] [ <pacc-err-err> ] [ <pcon-no-soc-err> ] [ <pcon-ealready-err>
] [ <pconn-getsock> ] [ <pconn-socon-err> ] [ <pconn-einpro-err> ] [ <pconn-con-wait-err> ] [
<psend-no-soc-err> ] [ <psend-inval-iovs> ] [ <psend-getsoc-err> ] [ <psend-msg-ctrl-err> ] [
<psend-sockarg-err> ] [ <psend-pru-sosend> ] [ <precv-nosock-err> ] [ <precv-inval-iovslen> ] [
<precv-pru-sorecv> ] [ <precv-cp-msg-err> ] [ <precv-cp-msg-nlen> ] [ <precv-cp-data-err> ] [
<pbreceive-err> ] [ <pshut-no-soc-err> ] [ <psetsoc-val-err> ] [ <psetsoc-inv-val> ] [ <psetsoc-no-soc-err>
] [ <psetsoc-sosetopt> ] [ <pgetsoc-no-socerr> ] [ <pgetsoc-cp-err> ] [ <pgetsoc-val-err> ] [ <pgetsoc-sogt-err>
] [ <pgtsoc-no-soc-err> ] [ <pgtsoc-cp-err> ] [ <pgtsoc-pru-soc-err> ] [ <pgtsoc-cpout-err> ] [
<pgtprne-no-soc-err> ] [ <pgtprne-enot-err> ] [ <pgtprne-cp-err> ] [ <pgtprne-pru-pradd> ] [
<pgtprne-cpout-err> ] [ <pclose-no-soc-err> ] [ <pclose-socnull-err> ] [ <pclose-p-cls2-err> ] [
<pfcntl-no-soc-err> ] [ <pfcntl-soc-null> ] [ <pfcntl-enotsup> ] [ <pfcntl-einval-err> ] [ <pioctl-no-soc-err>
] [ <pioctl-enotsup> ] [ <pioctl-pru-cntl> ] [ <pfork-enomem-err> ] [ <pdup-no-soc-err> ] [ <pudp-soc-null-err>
] [ <ha-nomem-err> ] [ <ha-tlv-err> ] [ <ha-soc-arg-err> ] [ <ha-cli-tlv-err> ] [ <ha-pss-upd-err> ] [
<ha-no-soc-err> ] [ <ha-soc-tlv-err> ] [ <ha-soc-pss-upd> ] [ <ha-inpcb-tlv> ] [ <ha-inpcb-pssky> ] [
<ha-ip-mopt-tlv> ] [ <ha-ip-mopt-pss> ] [ <ha-ip6-mopt-tlv> ] [ <ha-ip6-mopt-pss> ] [ <ha-tcpcb-tlv> ] [
<ha-tcpcb-pss> ] [ <ft-tcp-wblock> ] [ <ft-send-p-sndmsg> ] [ <ft-ack-rcv-no-soc> ] [ <!xc-tgid-err> ] ] [
TABLE_sp_cl [ <can-requests> <can-unblocks> <can-misses> <sel-drops> <sel-wakes> ] ] ] ] ]
```

Syntax Description

| | |
|------------|--|
| show | Show running system information |
| sockets | Display sockets status and configuration |
| client | Display sockets client information |
| pid | (Optional) Display specific client process information |
| <i>pid</i> | (Optional) Display client process <pid> |

| | |
|---------------------|---|
| tcp | (Optional) Display TCP clients |
| udp | (Optional) Display UDP clients |
| raw | (Optional) Display RAW clients |
| detail | (Optional) Display socket details |
| kstack-ns-all | (Optional) Show kernel clients for all namespaces |
| __readonly__ | (Optional) |
| TABLE_total_clients | (Optional) Total no of client sockets |
| socket-type | (Optional) Sockets type |
| total-clients | (Optional) total clients |
| no-total-clients | (Optional) number of total clients |
| TABLE_cl_sk | (Optional) Display Client sockets |
| prefix | (Optional) Prefix to the sockets |
| client-name | (Optional) Display socket client info |
| pid | (Optional) Display client process <pid> |
| No-of-clients | (Optional) Number of socket clients |
| fast-tcp-mts-ctrl-q | (Optional) Fast tcp mts control queue |
| cancel-requests | (Optional) cancel requests |
| cancel-unblocks | (Optional) cancel unblocks |
| cancel-misses | (Optional) cancel misses |
| select-drops | (Optional) select drops |
| select-wakes | (Optional) select wakes |
| TABLE_det | (Optional) Display Socket client Details |
| fd | (Optional) Client socket fd |
| client-id | (Optional) Client socket id |
| mts-sap | (Optional) socket mts addr sap |
| TABLE_st | (Optional) Sock detail Ctrl statistics |
| soc-calls | (Optional) sockets calls |
| bind-calls | (Optional) socket bind calls |
| listen-calls | (Optional) socket listen calls |

| | |
|--------------------------|--|
| <i>accept-calls</i> | (Optional) socket accept calls |
| <i>acc-dispat-err</i> | (Optional) socket accept dispatch error |
| <i>connect-calls</i> | (Optional) socket connect calls |
| <i>connec-dispatch</i> | (Optional) socket dispatch calls |
| <i>recvmsg-dispatch</i> | (Optional) receive msg dispatch |
| <i>recv-dis-nblock</i> | (Optional) receive dispatch nonblock |
| <i>recvmsg-call</i> | (Optional) receive message call |
| <i>brecv-dispatch</i> | (Optional) broadcast receive dispatch |
| <i>fsendmsg-calls</i> | (Optional) forward send message dispatch |
| <i>sendmsg-dispatch</i> | (Optional) send message dispatch |
| <i>sendmsg-calls</i> | (Optional) send message calls |
| <i>msendmsg-calls</i> | (Optional) multicast send message calls |
| <i>select-calls</i> | (Optional) select calls |
| <i>select-dispatch</i> | (Optional) select dispatch |
| <i>select-need-work</i> | (Optional) select need work |
| <i>sh-calls</i> | (Optional) show calls |
| <i>close-calls</i> | (Optional) close calls |
| <i>fcntl-calls</i> | (Optional) fcntl calls |
| <i>ioctl-calls</i> | (Optional) ioctl calls |
| <i>setsock-calls</i> | (Optional) setsock calls |
| <i>getsock-calls</i> | (Optional) getsock calls |
| <i>getsockname-calls</i> | (Optional) get socket name calls |
| <i>getpeer-calls</i> | (Optional) get peer calls |
| <i>fork-calls</i> | (Optional) fork calls |
| <i>execve-calls</i> | (Optional) execve calls |
| <i>dup-calls</i> | (Optional) duplicate calls |
| <i>can-calls</i> | (Optional) cancel calls |
| <i>can-miss</i> | (Optional) cancel miss |
| <i>can-unblk-sele</i> | (Optional) cancel unblock select |

| | |
|--------------------------|---|
| <i>soc-ha-calls</i> | (Optional) socket ha calls |
| <i>pfork-client</i> | (Optional) pfork client |
| <i>read-fd</i> | (Optional) socket read fd |
| <i>write-fd</i> | (Optional) socket write fd |
| <i>read-fd-set</i> | (Optional) socket read fd set |
| <i>write-fd-set</i> | (Optional) socket write fd set |
| <i>fast-tcp-send-req</i> | (Optional) socket fast tcp send request |
| <i>fast-tcp-send-suc</i> | (Optional) socket fast tcp send success |
| <i>fast-tcp-ack</i> | (Optional) socket fast tcp ack |
| TABLE_sterr | (Optional) Client Socket Error Statistics |
| <i>sock-err</i> | (Optional) socket error |
| <i>sock-nODEV-err</i> | (Optional) socket nodev error |
| <i>bind-err</i> | (Optional) socket bind error |
| <i>lis-err</i> | (Optional) socket listen error |
| <i>accept-err</i> | (Optional) socket accept error |
| <i>connect-err</i> | (Optional) socket connect error |
| <i>recvmsg-err</i> | (Optional) socket receive message error |
| <i>brcvmsg-err</i> | (Optional) socket broadcast receive message error |
| <i>fsendmsg-err</i> | (Optional) socket forward send message error |
| <i>sendmsg-err</i> | (Optional) socket send message error |
| <i>msndmsg-err</i> | (Optional) socket multicast send message error |
| <i>select-err</i> | (Optional) socket select error |
| <i>sel-nomem-err</i> | (Optional) socket select no member error |
| <i>shut-err</i> | (Optional) socket shutdown error |
| <i>close-err</i> | (Optional) socket close error |
| <i>fcntl-err</i> | (Optional) socket fcntl error |
| <i>ioctl-err</i> | (Optional) socket ioctl error |
| <i>setsoc-err</i> | (Optional) set socket error |
| <i>getsoc-err</i> | (Optional) get socket error |

| | |
|---------------------------|---|
| <i>getsocname-err</i> | (Optional) get socket name error |
| <i>getpeername-err</i> | (Optional) get peer name error |
| <i>fork-err</i> | (Optional) socket fork error |
| <i>execve-err</i> | (Optional) socket execve error |
| <i>dup-err</i> | (Optional) socket duplicate error |
| <i>psoc-vrf-err</i> | (Optional) psocket vrf error |
| <i>psoc-nosoc-err</i> | (Optional) psocket nosoc error |
| <i>psoc-sock-null-err</i> | (Optional) psocket socket null error |
| <i>psoc-socre-err</i> | (Optional) psocket socre error |
| <i>pbind-nsock-err</i> | (Optional) pbind nsock error |
| <i>pbid-getsocaddr</i> | (Optional) pbd getsocaddr |
| <i>pbind-sobind-err</i> | (Optional) pbind sobind error |
| <i>plisten-nsoc-err</i> | (Optional) plisten nsoc error |
| <i>plis-solis-err</i> | (Optional) plisten socket listen error |
| <i>pacc-nsoc-err</i> | (Optional) paccept new socket error |
| <i>pacc-no-nsoc-err</i> | (Optional) paccept no new socket error |
| <i>pacc-soc-null-err</i> | (Optional) paccept socket null error |
| <i>pacc-copy-err</i> | (Optional) paccept copy error |
| <i>pacc-no-acc-err</i> | (Optional) paccept no accept error |
| <i>pacc-woublo-err</i> | (Optional) paccept would block error |
| <i>pacc-connabo-err</i> | (Optional) paccept connect abort error |
| <i>pacc-cond-wait-err</i> | (Optional) paccept condition wait error |
| <i>pacc-so-err-err</i> | (Optional) paccept socket error |
| <i>pacc-err-err</i> | (Optional) paccept error |
| <i>pcon-no-soc-err</i> | (Optional) pconnect no socket error |
| <i>pcon-ealready-err</i> | (Optional) pconnect ready error |
| <i>pconn-getsock</i> | (Optional) pconnect get socket |
| <i>pconn-socon-err</i> | (Optional) pconnect socket on error |
| <i>pconn-einpro-err</i> | (Optional) pconnect einprogress error |

| | |
|---------------------------|--|
| <i>pconn-con-wait-err</i> | (Optional) pconnect condition wait error |
| <i>psend-no-soc-err</i> | (Optional) psend no socket error |
| <i>psend-inval-iov</i> | (Optional) psend invalidate iov |
| <i>psend-getsoc-err</i> | (Optional) psend getsocket error |
| <i>psend-msg-ctrl-err</i> | (Optional) psend message control error |
| <i>psend-sockarg-err</i> | (Optional) psend socket argument error |
| <i>psend-pru-sosend</i> | (Optional) psend pru socket send |
| <i>precv-nosock-err</i> | (Optional) preceive no socket error |
| <i>precv-inval-iovlen</i> | (Optional) preceive invalidate iovlen |
| <i>precv-pru-sorecv</i> | (Optional) preceive pru so receive |
| <i>precv-cp-msg-err</i> | (Optional) preceive copy message error |
| <i>precv-cp-msg-nlen</i> | (Optional) preceive copy message new length |
| <i>precv-cp-data-err</i> | (Optional) preceive copy data error |
| <i>pbrecv-rcvmsg-err</i> | (Optional) preceive receive message error |
| <i>pshut-no-soc-err</i> | (Optional) pshutdown no socket error |
| <i>psetsoc-val-err</i> | (Optional) pset socket value error |
| <i>psetsoc-inv-val</i> | (Optional) pset socket invalidate error |
| <i>psetsoc-no-soc-err</i> | (Optional) pset socket no socket error |
| <i>psetsoc-sosetopt</i> | (Optional) pset socket set opt |
| <i>pgetsoc-no-socerr</i> | (Optional) pget socket no socket error |
| <i>pgetsoc-cp-err</i> | (Optional) pget socket copy error |
| <i>pgetsoc-val-err</i> | (Optional) pget socket validate error |
| <i>pgetsoc-sogt-err</i> | (Optional) pget socket sogt error |
| <i>pgtsoc-no-soc-err</i> | (Optional) pget socket no socket error |
| <i>pgtsoc-cp-err</i> | (Optional) pget socket copy error |
| <i>pgtsoc-pru-soc-err</i> | (Optional) pget socket pru socket error |
| <i>pgtsoc-cpout-err</i> | (Optional) pget socket copy out error |
| <i>pgtprne-no-soc-err</i> | (Optional) pget peer name no socket error |
| <i>pgtprne-enot-err</i> | (Optional) pget peer name enot connect error |

| | |
|---------------------------|--|
| <i>pgtprne-cp-err</i> | (Optional) pget peer name copy error |
| <i>pgtprne-pru-pradd</i> | (Optional) pget peer name pru peer address |
| <i>pgtprne-cpout-err</i> | (Optional) pget peer name copy out error |
| <i>pclose-no-soc-err</i> | (Optional) pclose no socket error |
| <i>pclose-socnull-err</i> | (Optional) pclose socket null error |
| <i>pclose-p-cls2-err</i> | (Optional) pclose p close2 error |
| <i>pfcntl-no-soc-err</i> | (Optional) pfcntl no socket error |
| <i>pfcntl-soc-null</i> | (Optional) pfcntl socket null |
| <i>pfcntl-enotsup</i> | (Optional) pfcntl enotsupport errors |
| <i>pfcntl-einval-err</i> | (Optional) pfcntl invalidate error |
| <i>pioctl-no-soc-err</i> | (Optional) pioctl no socket error |
| <i>pioctl-enotsup</i> | (Optional) pioctl enotsup |
| <i>pioctl-pru-cntl</i> | (Optional) pioctl pru cntl |
| <i>pfork-enomem-err</i> | (Optional) pfork eno-memory error |
| <i>pdup-no-soc-err</i> | (Optional) pudp no socket error |
| <i>pdup-soc-null-err</i> | (Optional) pudp socket null error |
| <i>ha-nomem-err</i> | (Optional) ha no memory error |
| <i>ha-tlv-err</i> | (Optional) ha tlv error |
| <i>ha-soc-arg-err</i> | (Optional) ha socket argument error |
| <i>ha-cli-tlv-err</i> | (Optional) ha cli tlv error |
| <i>ha-pss-upd-err</i> | (Optional) ha pss udp error |
| <i>ha-no-soc-err</i> | (Optional) ha no socket error |
| <i>ha-soc-tlv-err</i> | (Optional) ha socket tlv error |
| <i>ha-soc-pss-upd</i> | (Optional) ha socket pss udp |
| <i>ha-inpcb-tlv</i> | (Optional) ha inpcb tlv value |
| <i>ha-inpcb-pssky</i> | (Optional) ha inpcb pssky value |
| <i>ha-ip-mopt-tlv</i> | (Optional) ha ip mopt tlv value |
| <i>ha-ip-mopt-pss</i> | (Optional) ha ip mopt pss value |
| <i>ha-ip6-mopt-tlv</i> | (Optional) ha ip6 mopt tlv value |

| | |
|--------------------------|---|
| <i>ha-ip6-mopt-pss</i> | (Optional) ha ip6 mopt pss value |
| <i>ha-tcpcb-tlv</i> | (Optional) ha socket update tcpcb to tlv error |
| <i>ha-tcpcb-pss</i> | (Optional) ha socket update tcpcb psskey update error |
| <i>fi-tcp-wblock</i> | (Optional) fast tcp send would block error |
| <i>fi-send-p-sndmsg</i> | (Optional) fast tcp send p_sendmsg errors |
| <i>fi-ack-rcv-no-soc</i> | (Optional) fast ack receive no socket |
| <i>lxc-tgid-err</i> | (Optional) Containers tgid err |
| TABLE_sp_cl | (Optional) Sock specific Ctrl statistics |
| <i>can-requests</i> | (Optional) socket control cancel request |
| <i>can-unblocks</i> | (Optional) socket cancel unblocks |
| <i>can-misses</i> | (Optional) socket cancel misses |
| <i>sel-drops</i> | (Optional) select drops |
| <i>sel-wakes</i> | (Optional) select wakes |

Command Mode

- /exec

show sockets connection

```
show sockets connection [ pid <pid> | tcp | udp | raw ] [ local { <srcIP> | <srcIP6> } ] [ foreign { <dstIP> | <dstIP6> } ] [ detail ] [ keydetails ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_conn <prot> <tcp-state> <rcv-count> <laddr> <lport> <faddr> <fport> <intf> <rcv-count> <snd-count> <type> <ttl> <tos> <options> <state> <iss> <snd-una> <snd-nxt> <snd_wnd> <irs> <rcv-nxt> <rcv-wnd> <snd-cwnd> <srtt> <rtt> <rttvar> <krtt> <rttmin> <mss> <dur> <flags> <md5-ent> <md5-host> <md5-err> <rcv-hiwait> <rcv-lowat> <rcv-flags> <snd-hiwait> <snd-lowat> <snd-flags> <tcp-count> <udp-count> <raw-count> ]
```

Syntax Description

| | |
|---------------------|---|
| show | Show running system information |
| sockets | Display sockets status and configuration |
| connection | Display connection information |
| pid | (Optional) Display specific client process connection status |
| <i>pid</i> | (Optional) Display client process connection status <pid> |
| tcp | (Optional) Display all TCP connections |
| udp | (Optional) Display all UDP connections |
| raw | (Optional) Display all raw connections |
| local | (Optional) Display all TCP connections with specified local address |
| <i>srcIP</i> | (Optional) Display all TCP connections with specified local address |
| foreign | (Optional) Display all TCP connections with specified foreign address |
| <i>dstIP</i> | (Optional) Display all TCP connections with specified foreign address |
| detail | (Optional) Display detailed connection information |
| keydetails | (Optional) Display md5 key specific details |
| __readonly__ | (Optional) |
| TABLE_vrf | (Optional) vrf table |
| <i>vrf-name-out</i> | (Optional) vrf name out |
| TABLE_afi | (Optional) afi table |
| <i>afi</i> | (Optional) afi id |
| TABLE_conn | (Optional) connection table |
| <i>prot</i> | (Optional) socket protocol |
| <i>tcp-state</i> | (Optional) socket tcp state |

| | |
|------------------|--|
| <i>rcv-count</i> | (Optional) socket connection receive count |
| <i>laddr</i> | (Optional) socket connection laddr |
| <i>lport</i> | (Optional) socket connection lport |
| <i>faddr</i> | (Optional) socket connection faddr |
| <i>fport</i> | (Optional) socket connection fport |
| <i>intf</i> | (Optional) socket connection interface |
| <i>snd-count</i> | (Optional) socket connection send count |
| <i>type</i> | (Optional) socket connection type |
| <i>ttl</i> | (Optional) socket connection ttl |
| <i>tos</i> | (Optional) socket connection tos |
| <i>options</i> | (Optional) socket connection option |
| <i>state</i> | (Optional) socket connection state |
| <i>iss</i> | (Optional) socket connection iss |
| <i>snd-una</i> | (Optional) socket connection send unavailable |
| <i>snd-nxt</i> | (Optional) socket connection send next |
| <i>snd_wnd</i> | (Optional) socket connection send window |
| <i>irs</i> | (Optional) socket connection irs |
| <i>rcv-nxt</i> | (Optional) socket connection receive next |
| <i>rcv-wnd</i> | (Optional) socket connection receive window |
| <i>snd-cwnd</i> | (Optional) socket connection close sent window |
| <i>srtt</i> | (Optional) socket connection srtt |
| <i>rtt</i> | (Optional) socket connection rtt |
| <i>rttvar</i> | (Optional) socket connection rttvar |
| <i>krtt</i> | (Optional) socket connection krtt |
| <i>rttmin</i> | (Optional) socket connection rtt mintues |
| <i>mss</i> | (Optional) socket connection mss |
| <i>dur</i> | (Optional) socket connection duration |
| <i>flags</i> | (Optional) socket connection flags |
| <i>md5-cnt</i> | (Optional) socket connection md5 count |

| | |
|-------------------|--|
| <i>md5-host</i> | (Optional) socket connection md5 host |
| <i>md5-err</i> | (Optional) socket connection md5 error |
| <i>rcv-hiwait</i> | (Optional) socket connection receive hiwat |
| <i>rcv-lowat</i> | (Optional) socket connection receive lowat |
| <i>rcv-flags</i> | (Optional) socket connection receive flags |
| <i>snd-hiwait</i> | (Optional) socket connection send hiwat |
| <i>snd-lowat</i> | (Optional) socket connection send lowat |
| <i>snd-flags</i> | (Optional) socket connection send flags |
| <i>tcp-count</i> | (Optional) socket connection tcp count |
| <i>udp-count</i> | (Optional) socket connection udp count |
| <i>raw-count</i> | (Optional) socket connection raw count |

Command Mode

- /exec

show sockets keychain-dump

show sockets keychain-dump

Syntax Description

| | |
|---------------|--|
| show | Show running system information |
| sockets | Display sockets status and configuration |
| keychain-dump | Dump the pss information for keychains |

Command Mode

- /exec

show sockets local-port-range

```
show sockets local-port-range [ __readonly__ <kstack_local_port_range_start> <kstack_local_port_range_end>
<netstack_local_port_range_start> <netstack_local_port_range_end> ]
```

Syntax Description

| | |
|--|--|
| show | Show running system information |
| sockets | Display sockets status and configuration |
| local-port-range | Display local port range |
| <i>__readonly__</i> | (Optional) |
| <i>kstack_local_port_range_start</i> | (Optional) Kstack local port range start |
| <i>kstack_local_port_range_end</i> | (Optional) Kstack local port range end |
| <i>netstack_local_port_range_start</i> | (Optional) Netstack local port range start |
| <i>netstack_local_port_range_end</i> | (Optional) Netstack local port range end |

Command Mode

- /exec

show sockets performance

show sockets performance [clear]

Syntax Description

| | |
|-------------|--|
| show | Show running system information |
| sockets | Display sockets status and configuration |
| performance | Display detailed perf statistics |
| clear | (Optional) Clear perf statistics |

Command Mode

- /exec

show sockets secure-lxc

show sockets secure-lxc

Syntax Description

| | |
|------------|--|
| show | Show running system information |
| sockets | Display sockets status and configuration |
| secure-lxc | Display secure-container sockets information |

Command Mode

- /exec

show sockets statistics

```

show sockets statistics [ all | tcp | tcp6 | tcpsum | udp | udp6 | udpsum | raw | raw6 | rawsum ] [ __readonly__
[ { TABLE_stat [ <rx-total> ] [ <rx-bad-csum> ] [ <rx-bad-offset> ] [ <rx-too-short> ] [ <rx-bad-md5> ] [
<rx-inseq-pack> ] [ <rx-inseq-bytes> ] [ <rx-dup-pack> ] [ <rx-dup-bytes> ] [ <rx-partdup-pack> ] [
<rx-partdup-bytes> ] [ <rx-oo-pack> ] [ <rx-oo-bytes> ] [ <rx-afterwin-pack> ] [ <rx-afterwin-bytes> ] [
<rx-afterclose-pack> ] [ <rx-winprobe-pack> ] [ <rx-winupdate-pack> ] [ <rx-dupack-pack> ] [
<rx-dupack-unsent-pack> ] [ <rx-ack-pack> ] [ <rx-ack-bytes> ] [ <rx-rcv-memdrop> ] [ <rx-dig-mssing> ]
[ <rx-dig-unexpected> ] [ <rx-dig-notused> ] [ <rx-dig-valid> ] [ <rx-dig-invalid> ] [ <rx-get-passwd-fail> ]
[ <rx-md5-mbuf-exded> ] [ <rx-uspec-src-recvd> ] [ <rx-pkt-too-short> ] [ <rx-sin-finest> ] [ <rx-black-hole-syn>
] [ <rx-black-hole> ] [ <rx-drop-no-inpcb> ] [ <rx-drop-notcpcb> ] [ <rx-drp-sock-closed> ] [ <rx-syn-with-rst>
] [ <rx-syn-drop> ] [ <rx-bandlim> ] [ <rx-forged-pkt> ] [ <rx-drp-mbcast> ] [ <rx-drp-syn-add> ] [
<rx-drp-syn-recvd> ] [ <rx-drp-cc-sent> ] [ <rx-drp-rst-ccsent> ] [ <rx-frecv-enqueue> ] [
<rx-frecv-enqueue-fail> ] [ <rx-ftp-cant-rcv-more> ] [ <rx-ftp-data-ack-toapp-fail> ] [
<rx-ftp-data-ack-toapp> ] [ <tx-total> ] [ <tx-urg> ] [ <tx-ctrl> ] [ <tx-data-pack> ] [ <tx-data-bytes> ] [
<tx-reasm-pack> ] [ <tx-reasm-bytes> ] [ <tx-ackonly-pack> ] [ <tx-winprobe-pack> ] [ <tx-winupdate-bytes>
] [ <tx-encrypt> ] [ <tx-unencrypt> ] [ <tx-md5rst> ] [ <tx-conn-init> ] [ <tx-conn-accepted> ] [ <tx-conn-estd>
] [ <closed> ] [ <dropped> ] [ <emb-dropped> ] [ <tx-rxmt-timeout> ] [ <tx-rxmt-timeout-dropped> ] [
<tx-ka-timeout> ] [ <tx-ka-probe> ] [ <tx-ka-drop> ] [ <gen-seg-timed> ] [ <gen-rtt-updated> ] [ <gen-delack>
] [ <gen-persist-timeout> ] [ <gen-paws-drop> ] [ <gen-predack> ] [ <gen-predat> ] [ <gen-pcb-cachemiss>
] [ <gen-cache-drtt> ] [ <gen-cache-drttvar> ] [ <gen-cached-ssthresh> ] [ <gen-usedrtt> ] [ <gen-usedrttvar>
] [ <gen-usedssthresh> ] [ <gen-persistdrop> ] [ <gen-badsyn> ] [ <gen-mturesent> ] [ <gen-list-endrop> ] [
<gen-rpm-bind-synsock> ] [ <gen-rpm-bindsynadd> ] [ <gen-rpm-bindlookup> ] [ <gen-rpm-bindsetsock>
] [ <gen-rpm-unbind-getpass> ] [ <gen-rpm-unbinduser1> ] [ <gen-rpm-unbinduser2> ] [
<gen-rpm-unbindrollover> ] [ <gen-rpm-unbind-synfree> ] [ <gen-rpm-unbind-tpfree> ] [ <syn-sc-added> ]
[ <syn-retransmitted> ] [ <syn-dupsyn> ] [ <syn-dropped> ] [ <syn-completed> ] [ <syn-bucket-overflow> ]
[ <syn-cache-overflow> ] [ <syn-sc-reset> ] [ <syn-sc-stale> ] [ <syn-sc-aborted> ] [ <syn-sc-badack> ] [
<syn-sc-unreach> ] [ <syn-sc-zonefail> ] [ <syn-sc-sendcookie> ] [ <syn-sc-recvcookie> ] [ <syn-sc-crosshits>
] [ <syn-sc-supsyncrosshits> ] [ <syn-sc-removexcrosshits> ] [ <udp-rx-total> ] [ <udp-rx-bad-csum> ] [
<udp-rx-no-csum> ] [ <udp-rx-too-short> ] [ <udp-rx-bad-len> ] [ <udp-rx-no-port> ] [ <udp-rx-no-port-bcast>
] [ <udp-rx-no-port-mcast> ] [ <udp-rx-full-socket-drop> ] [ <udp-tx-total> ] [ <raw-rx-version> ] [
<raw-rx-rcvd> ] [ <raw-rx-no-port> ] [ <raw-rx-full-socket-drop> ] [ <raw-tx-sent> ] [ <inpcb-tot-alloc> ] [
<inpcb-tot-bind> ] [ <inpcb-tot-laddr> ] [ <inpcb-tot-connect> ] [ <inpcb-tot-disconnect> ] [ <inpcb-tot-detach>
] [ <inpcb-tot-detach-noinc> ] [ <inpcb-tot-detach-rort> ] [ <inpcb-tot-rtfree> ] [ <inpcb-tot-setsock-addr> ]
[ <inpcb-tot-setpeeraddr> ] [ <inpcb-tot-notify> ] [ <inpcb-tot-lookup-npacli-deny> ] [
<inpcb-tot-lookup-npacli-allow> ] [ <inpcb-tot-inshash-ipv4> ] [ <inpcb-tot-inshash-ipv6> ] [
<inpcb-tot-brehash-ipv4> ] [ <inpcb-tot-brehash-ipv6> ] [ <inpcb-tot-bremhash> ] [ <inpcb-err-allocnomem>
] [ <inpcb-err-bindeinavl> ] [ <inpcb-err-eaddrinuse> ] [ <inpcb-err-eagain> ] [ <inpcb-err-eagain2> ] [
<inpcb-err-eaddrnotavail> ] [ <inpcb-err-eafnosupport> ] [ <inpcb-err-enomem> ] [ <inpcb-err-ehostunreach>
] [ <inpcb-err-laddr-enixio> ] [ <inpcb-err-laddr-ehostunreach2> ] [ <inpcb-err-connectladdr> ] [
<inpcb-err-connect-eaddrinuse> ] [ <inpcb-err-connbind> ] [ <inpcb-err-sockaddrnomem> ] [
<inpcb-err-sockaddrreconnreset> ] [ <inpcb-err-peeraddr-enomem> ] [ <inpcb-err-econnrest> ] [
<inpcb-err-respond-enobufs> ] [ <inpcb-err-binshash-enobufs> ] [ <in6pcb-tot-setport> ] [ <in6pcb-tot-bind>
] [ <in6pcb-tot-laddr> ] [ <in6pcb-tot-connect> ] [ <in6pcb-tot-disconnect> ] [ <in6pcb-tot-detach> ] [
<in6pcb-tot-sockaddr> ] [ <in6pcb-tot-peeraddr> ] [ <in6pcb-tot-notify> ] [ <in6pcb-tot-lookuplocal> ] [
<in6pcb-tot-hashnpacli-deny> ] [ <in6pcb-err-setporteagain> ] [ <in6pcb-err-setporteagain2> ] [
<in6pcb-err-seteagain3> ] [ <in6pcb-bind-eafnosupport> ] [ <in6pcb-err-bindeaddrinuse> ] [
<in6pcb-err-bindeaddrinuse2> ] [ <in6pcb-err-bindeaddrinuse3> ] [ <in6pcb-err-bindeaddrinuse4> ] [
<in6pcb-err-bindsetport> ] [ <in6pcb-err-bindeagain> ] [ <in6pcb-err-laddr-eafnosupport> ] [
<in6pcb-err-eaddrnotavail> ] [ <in6pcb-err-laddr-enomem> ] [ <in6pcb-err-laddr-ehostreach> ] [

```

```
<in6pcb-err-laddr-ehostunreach2> ] [ <in6pcb-err-laddr-ehostunreach3> ] [ <in6pcb-err-laddr-ehostunreach4>
] [ <in6pcb-err-laddr-enxio> ] [ <in6pcb-err-connladdr> ] [ <in6pcb-err-conneaddrinuse> ] [
<in6pcb-err-connbind> ] [ <in6pcb-err-sockaddr-enomem> ] [ <in6pcb-err-v4maps-enomem> ] [
<in6pcb-err-setsock-noinp> ] [ <in6pcb-err-setpeer-noinp> ] [ <in6pcb-err-sockaddr-noinp> ] [
<in6pcb-err-peeraddr-noinp> ] [ <in6pcb-err-notify-einavl> ] [ <in6pcb-err-ctloutput-nosoopt> ] } ] ]
```

Syntax Description

| | |
|------------------------|--|
| show | Show running system information |
| sockets | Display sockets status and configuration |
| statistics | Display sockets statistics |
| all | (Optional) Display TCP/UDP/RAW v4/v6 protocols statistics |
| tcp | (Optional) Display TCP v4 protocol statistics |
| tcp6 | (Optional) Display TCP v6 protocol statistics |
| tcpsum | (Optional) Display sum of TCP v4 and TCP v6 protocols statistics |
| udp | (Optional) Display UDP v4 protocol statistics |
| udp6 | (Optional) Display UDP v6 protocol statistics |
| udpsum | (Optional) Display sum of UDP v4 and UDP v6 protocols statistics |
| raw | (Optional) Display RAW v4 protocol statistics |
| raw6 | (Optional) Display RAW v6 protocol statistics |
| rawsum | (Optional) Display sum of RAW v4 and RAW v6 protocols statistics |
| __readonly__ | (Optional) |
| TABLE_stat | (Optional) sockets statistics table |
| <i>rx-total</i> | (Optional) total packets received |
| <i>rx-bad-csum</i> | (Optional) packets received with ccksum errs |
| <i>rx-bad-offset</i> | (Optional) packets received with bad offset |
| <i>rx-too-short</i> | (Optional) packets received too short |
| <i>rx-bad-md5</i> | (Optional) Recieved bad digest |
| <i>rx-inseq-pack</i> | (Optional) packets received in sequence |
| <i>rx-inseq-bytes</i> | (Optional) bytes received in sequence |
| <i>rx-dup-pack</i> | (Optional) duplicate-only packets received |
| <i>rx-dup-bytes</i> | (Optional) duplicate-only bytes received |
| <i>rx-partdup-pack</i> | (Optional) packets with some duplicate data |

| | |
|------------------------------|---|
| <i>rx-partdup-bytes</i> | (Optional) dup. bytes in part-dup. packets |
| <i>rx-oo-pack</i> | (Optional) out-of-order packets received |
| <i>rx-oo-bytes</i> | (Optional) out-of-order bytes received |
| <i>rx-afterwin-pack</i> | (Optional) packets with data after window |
| <i>rx-afterwin-bytes</i> | (Optional) bytes rcvd after window |
| <i>rx-afterclose-pack</i> | (Optional) packets rcvd after close |
| <i>rx-winprobe-pack</i> | (Optional) rcvd window probe packets |
| <i>rx-winupdate-pack</i> | (Optional) rcvd window update packets |
| <i>rx-dupack-pack</i> | (Optional) rcvd duplicate acks |
| <i>rx-dupack-unsent-pack</i> | (Optional) rcvd acks for unsent data |
| <i>rx-ack-pack</i> | (Optional) rcvd ack packets |
| <i>rx-ack-bytes</i> | (Optional) bytes acked by rcvd acks |
| <i>rx-rcv-memdrop</i> | (Optional) packets dropped for lack of memory |
| <i>rx-dig-mssing</i> | (Optional) digest missing |
| <i>rx-dig-unexpected</i> | (Optional) digest unexpected |
| <i>rx-dig-notused</i> | (Optional) digest not used |
| <i>rx-dig-valid</i> | (Optional) digest valid |
| <i>rx-dig-invalid</i> | (Optional) digest invalid |
| <i>rx-get-passwd-fail</i> | (Optional) get pass failed for RST |
| <i>rx-md5-mbuf-exded</i> | (Optional) md5 passwd exceeds mbuf |
| <i>rx-uspec-src-recv</i> | (Optional) Dropped Unspecified src pkt recieved |
| <i>rx-pkt-too-short</i> | (Optional) Dropped Packet too short |
| <i>rx-sin-finest</i> | (Optional) Dropped packet set with SYN/FIN |
| <i>rx-black-hole-syn</i> | (Optional) Dropped black hole SYN |
| <i>rx-black-hole</i> | (Optional) Dropped black hole |
| <i>rx-drop-no-inpcb</i> | (Optional) Dropped no inpcb |
| <i>rx-drop-notpcb</i> | (Optional) Dropped no tcpb |
| <i>rx-drp-sock-closed</i> | (Optional) Dropped socket closed |
| <i>rx-syn-with-rst</i> | (Optional) Dropped SYN with reset |

| | |
|------------------------------------|---|
| <i>rx-syn-drop</i> | (Optional) Dropped SYN |
| <i>rx-bandlim</i> | (Optional) Dropped Bandlim rst open port |
| <i>rx-forged-pkt</i> | (Optional) Dropped Same src/dst |
| <i>rx-drp-mbcast</i> | (Optional) Dropped Broadcast/Multicast |
| <i>rx-drp-syn-add</i> | (Optional) Dropped Adding SYN failed |
| <i>rx-drp-syn-recvd</i> | (Optional) ACK recvd not for our SYN |
| <i>rx-drp-cc-sent</i> | (Optional) Dropped cc sent |
| <i>rx-drp-rst-ccsent</i> | (Optional) Dropped cc sent with reset |
| <i>rx-frecv-enqueue</i> | (Optional) Fast recv packets enqueued |
| <i>rx-frecv-enqueue-fail</i> | (Optional) Fast recv enqueue failed |
| <i>rx-ftcp-cant-rcv-more</i> | (Optional) Fast TCP can not recv more |
| <i>rx-ftcp-data-ack-toapp-fail</i> | (Optional) Fast TCP data ACK to app failed |
| <i>rx-ftcp-data-ack-toapp</i> | (Optional) Fast TCP data ACK to app |
| <i>tx-total</i> | (Optional) total packets sent |
| <i>tx-urg</i> | (Optional) packets sent with URG only |
| <i>tx-ctrl</i> | (Optional) control (SYN FIN RST) packets sent |
| <i>tx-data-pack</i> | (Optional) data packets sent |
| <i>tx-data-bytes</i> | (Optional) data bytes sent |
| <i>tx-reasm-pack</i> | (Optional) data packets retransmitted |
| <i>tx-reasm-bytes</i> | (Optional) data bytes retransmitted |
| <i>tx-ackonly-pack</i> | (Optional) ack-only packets sent |
| <i>tx-winprobe-pack</i> | (Optional) window probes sent |
| <i>tx-winupdate-bytes</i> | (Optional) window update-only packets sent |
| <i>tx-encrypt</i> | (Optional) Encrypted packets sent |
| <i>tx-unencrypt</i> | (Optional) Unencrypted packets sent |
| <i>tx-md5rst</i> | (Optional) No of encrypted RST packets |
| <i>tx-conn-init</i> | (Optional) connections initiated |
| <i>tx-conn-accepted</i> | (Optional) connections accepted |
| <i>tx-conn-estd</i> | (Optional) connections established |

| | |
|--------------------------------|--|
| <i>closed</i> | (Optional) conn. closed (includes drops) |
| <i>dropped</i> | (Optional) connections dropped |
| <i>emb-dropped</i> | (Optional) embryonic connections dropped |
| <i>tx-rxmt-timeout</i> | (Optional) total rxmt timeout |
| <i>tx-rxmt-timeout-dropped</i> | (Optional) connections dropped in rxmt timeout |
| <i>tx-ka-timeout</i> | (Optional) keepalive timeouts |
| <i>tx-ka-probe</i> | (Optional) keepalive probes sent |
| <i>tx-ka-drop</i> | (Optional) connections dropped in keepalive |
| <i>gen-seg-timed</i> | (Optional) segs where we tried to get rtt |
| <i>gen-rtt-updated</i> | (Optional) times we succeeded to get rtt |
| <i>gen-delack</i> | (Optional) delayed acks sent |
| <i>gen-persist-timeout</i> | (Optional) persist timeouts |
| <i>gen-paws-drop</i> | (Optional) segments dropped due to PAWS |
| <i>gen-predack</i> | (Optional) hdr predict ok for acks |
| <i>gen-preddat</i> | (Optional) hdr predict ok for data pkts |
| <i>gen-pcb-cachemiss</i> | (Optional) PCB cache miss |
| <i>gen-cache-drtt</i> | (Optional) times cached RTT in route updated |
| <i>gen-cache-drttvar</i> | (Optional) times cached rttvar updated |
| <i>gen-cached-ssthresh</i> | (Optional) times cached ssthresh updated |
| <i>gen-usedrtt</i> | (Optional) times RTT initialized from route |
| <i>gen-usedrttvar</i> | (Optional) times RTTVAR initialized from rt |
| <i>gen-usedssthresh</i> | (Optional) times ssthresh initialized from rt |
| <i>gen-persistdrop</i> | (Optional) timeout in persist state |
| <i>gen-badsyn</i> | (Optional) bogus SYN, e.g. premature ACK |
| <i>gen-mturesent</i> | (Optional) resends due to MTU discovery |
| <i>gen-list-endrop</i> | (Optional) listen queue overflows |
| <i>gen-rpm-bind-synsock</i> | (Optional) rpm bind in synsock |
| <i>gen-rpm-bindsynadd</i> | (Optional) rpm bind in synadd |
| <i>gen-rpm-bindlookup</i> | (Optional) rpm bind in lookup |

| | |
|-------------------------------|---|
| <i>gen-rpm-bindsetsock</i> | (Optional) rpm bind in setsock |
| <i>gen-rpm-unbind-getpass</i> | (Optional) rpm unbind get pass |
| <i>gen-rpm-unbinduser1</i> | (Optional) rpm unbind by user |
| <i>gen-rpm-unbinduser2</i> | (Optional) rpm unbind by user1 |
| <i>gen-rpm-unbindrollover</i> | (Optional) rpm unbind during rollover |
| <i>gen-rpm-unbind-synfree</i> | (Optional) rpm unbind in syn free |
| <i>gen-rpm-unbind-tpfree</i> | (Optional) rpm unbind in tp free |
| <i>syn-sc-added</i> | (Optional) entry added to syncache |
| <i>syn-retransmitted</i> | (Optional) syncache entry was retransmitted |
| <i>syn-dupsyn</i> | (Optional) duplicate SYN packet |
| <i>syn-dropped</i> | (Optional) could not reply to packet |
| <i>syn-completed</i> | (Optional) successful extraction of entry |
| <i>syn-bucket-overflow</i> | (Optional) syncache per-bucket limit hit |
| <i>syn-cache-overflow</i> | (Optional) syncache cache limit hit |
| <i>syn-sc-reset</i> | (Optional) RST removed entry from syncache |
| <i>syn-sc-stale</i> | (Optional) timed out or listen socket gone |
| <i>syn-sc-aborted</i> | (Optional) syncache entry aborted |
| <i>syn-sc-badack</i> | (Optional) removed due to bad ACK |
| <i>syn-sc-unreach</i> | (Optional) ICMP unreachable received |
| <i>syn-sc-zonefail</i> | (Optional) zalloc() failed |
| <i>syn-sc-sendcookie</i> | (Optional) SYN cookie sent |
| <i>syn-sc-recvcookie</i> | (Optional) SYN cookie received |
| <i>syn-sc-crosshits</i> | (Optional) crosshits on the SC blocks |
| <i>syn-sc-supsyncrosshits</i> | (Optional) crosshits dup SYN on SC block |
| <i>syn-sc-removecrosshits</i> | (Optional) crosshits on SC blocks to remove |
| <i>udp-rx-total</i> | (Optional) total udp packets |
| <i>udp-rx-bad-csum</i> | (Optional) udp checksum error |
| <i>udp-rx-no-csum</i> | (Optional) udp no checksum |
| <i>udp-rx-too-short</i> | (Optional) udp packets drops |

| | |
|-------------------------------------|--|
| <i>udp-rx-bad-len</i> | (Optional) udp bad length |
| <i>udp-rx-no-port</i> | (Optional) udp no port |
| <i>udp-rx-no-port-bcast</i> | (Optional) udp no port broadcast |
| <i>udp-rx-no-port-mcast</i> | (Optional) udp no port multicast |
| <i>udp-rx-full-socket-drop</i> | (Optional) udp dropped full socket |
| <i>udp-tx-total</i> | (Optional) udp total packets |
| <i>raw-rx-version</i> | (Optional) raw sockets version |
| <i>raw-rx-rcvd</i> | (Optional) raw sockets connection received |
| <i>raw-rx-no-port</i> | (Optional) raw socket no port |
| <i>raw-rx-full-socket-drop</i> | (Optional) raw socket full sockets drop |
| <i>raw-tx-sent</i> | (Optional) raw socket connection sent |
| <i>inpcb-tot-alloc</i> | (Optional) inpcb allocation |
| <i>inpcb-tot-bind</i> | (Optional) inpcb bind |
| <i>inpcb-tot-laddr</i> | (Optional) inpcb laddr |
| <i>inpcb-tot-connect</i> | (Optional) inpcb connect |
| <i>inpcb-tot-disconnect</i> | (Optional) inpcb disconnect |
| <i>inpcb-tot-detach</i> | (Optional) inpcb detach |
| <i>inpcb-tot-detach-noinc</i> | (Optional) inpcb detaach no increment |
| <i>inpcb-tot-detach-rort</i> | (Optional) inpcb detach no return |
| <i>inpcb-tot-rtfree</i> | (Optional) inpcb rt free |
| <i>inpcb-tot-setsock-addr</i> | (Optional) inpcb set socket address |
| <i>inpcb-tot-setpeeraddr</i> | (Optional) inpcb set peer address |
| <i>inpcb-tot-notify</i> | (Optional) inpcb notify |
| <i>inpcb-tot-lookup-npacl-deny</i> | (Optional) inpcb lookup hash npacl deny |
| <i>inpcb-tot-lookup-npacl-allow</i> | (Optional) inpcb lookup npacl allow |
| <i>inpcb-tot-inshash-ipv4</i> | (Optional) inpcb inshash ipv4 |
| <i>inpcb-tot-inshash-ipv6</i> | (Optional) inpcb inshash ipv6 |
| <i>inpcb-tot-brehash-ipv4</i> | (Optional) inpcb brehash ipv4 |
| <i>inpcb-tot-brehash-ipv6</i> | (Optional) inpcb brehash ipv6 |

| | |
|--------------------------------------|--|
| <i>inpcb-tot-brehash</i> | (Optional) inpcb brehash |
| <i>inpcb-err-allocnomem</i> | (Optional) inpcb allocation no memory error |
| <i>inpcb-err-bindeinavl</i> | (Optional) inpcb bind inval error |
| <i>inpcb-err-eaddrinuse</i> | (Optional) inpcb eaddr in use error |
| <i>inpcb-err-eagain</i> | (Optional) inpcb eagain error |
| <i>inpcb-err-eagain2</i> | (Optional) inpcb eagain2 error |
| <i>inpcb-err-eaddrnotavail</i> | (Optional) inpcb eaddr not availableerror |
| <i>inpcb-err-eafnosupport</i> | (Optional) inpcb eaf no support error |
| <i>inpcb-err-enomem</i> | (Optional) inpcb no-memory error |
| <i>inpcb-err-ehostunreach</i> | (Optional) inpcb ehost unreachable error |
| <i>inpcb-err-laddr-enixio</i> | (Optional) inpcb laddr enxio error |
| <i>inpcb-err-laddr-ehostunreach2</i> | (Optional) inpcb laddr ehost unreachable2 error |
| <i>inpcb-err-connectladdr</i> | (Optional) inpcb connect laddr error |
| <i>inpcb-err-connect-eaddrinuse</i> | (Optional) inpcb connect eaddress in use error |
| <i>inpcb-err-connbind</i> | (Optional) inpcb connect bind error |
| <i>inpcb-err-sockaddrenomem</i> | (Optional) inpcb socket address no memory error |
| <i>inpcb-err-sockadreconnreset</i> | (Optional) inpcb socket address econnect reset error |
| <i>inpcb-err-peeraddr-enomem</i> | (Optional) inpcb peer address no memory error |
| <i>inpcb-err-econnrest</i> | (Optional) inpcb connection rest error |
| <i>inpcb-err-respond-enobufs</i> | (Optional) inpcb respond no buffer error |
| <i>inpcb-err-binshash-enobufs</i> | (Optional) inpcb binshash no buffer error |
| <i>in6pcb-tot-setport</i> | (Optional) in6pcb set port error |
| <i>in6pcb-tot-bind</i> | (Optional) in6pcb bind |
| <i>in6pcb-tot-laddr</i> | (Optional) in6pcb laddr |
| <i>in6pcb-tot-connect</i> | (Optional) in6pcb connect |
| <i>in6pcb-tot-disconnect</i> | (Optional) in6pcb disconnect |
| <i>in6pcb-tot-detach</i> | (Optional) in6pcb detach |
| <i>in6pcb-tot-sockaddr</i> | (Optional) in6pcb socket address |
| <i>in6pcb-tot-peeraddr</i> | (Optional) in6pcb peer address |

| | |
|---------------------------------------|--|
| <i>in6pcb-tot-notify</i> | (Optional) in6pcb notify |
| <i>in6pcb-tot-lookuplocal</i> | (Optional) in6pcb lookup local |
| <i>in6pcb-tot-hashnpacl-deny</i> | (Optional) in6pcb hash npacl deny |
| <i>in6pcb-err-setporteagain</i> | (Optional) in6pcb set port again error |
| <i>in6pcb-err-setporteagain2</i> | (Optional) in6pcb set port again2 error |
| <i>in6pcb-err-seteagain3</i> | (Optional) in6pcb set port again3 error |
| <i>in6pcb-bind-eafnosupport</i> | (Optional) in6pcb bind eaf no support error |
| <i>in6pcb-err-bindeaddrinuse</i> | (Optional) in6pcb bind address in use error |
| <i>in6pcb-err-bindeaddrinuse2</i> | (Optional) in6pcb bind address in use2 error |
| <i>in6pcb-err-bindeaddrinuse3</i> | (Optional) in6pcb bind address in use3 error |
| <i>in6pcb-err-bindeaddrinuse4</i> | (Optional) in6pcb bind address in use4 error |
| <i>in6pcb-err-bindsetport</i> | (Optional) in6pcb bind setport error |
| <i>in6pcb-err-bindeagain</i> | (Optional) in6pcb bind again error |
| <i>in6pcb-err-laddr-eafnosupport</i> | (Optional) in6pcb laddr eaf no support error |
| <i>in6pcb-err-eaddrnotavail</i> | (Optional) in6pcb address not available error |
| <i>in6pcb-err-laddr-enomem</i> | (Optional) in6pcb laddr no memory error |
| <i>in6pcb-err-laddr-ehostreach</i> | (Optional) in6pcb laddr host reach error |
| <i>in6pcb-err-laddr-ehostunreach2</i> | (Optional) in6pcb laddr host reach2 error |
| <i>in6pcb-err-laddr-ehostunreach3</i> | (Optional) in6pcb laddr host reach3 error |
| <i>in6pcb-err-laddr-ehostunreach4</i> | (Optional) in6pcb laddr host reach4 error |
| <i>in6pcb-err-laddr-enxio</i> | (Optional) in6pcb laddr enxio error |
| <i>in6pcb-err-connladdr</i> | (Optional) in6pcb connect laddr error |
| <i>in6pcb-err-conneaddrinuse</i> | (Optional) in6pcb connect eaddress in use error |
| <i>in6pcb-err-connbind</i> | (Optional) in6pcb connect bind error |
| <i>in6pcb-err-sockaddr-enomem</i> | (Optional) in6pcb socket address no memory error |
| <i>in6pcb-err-v4maps-enomem</i> | (Optional) in6pcb v4maps no memory error |
| <i>in6pcb-err-setsock-noinp</i> | (Optional) in6pcb set socket noinp error |
| <i>in6pcb-err-setpeer-noinp</i> | (Optional) in6pcb set peer noinp error |
| <i>in6pcb-err-sockaddr-noinp</i> | (Optional) in6pcb socket address noinp error |

| | |
|------------------------------------|--|
| <i>in6pcb-err-peeraddr-noinp</i> | (Optional) in6pcb peer address noinp error |
| <i>in6pcb-err-notify-einavl</i> | (Optional) in6pcb notify egress available error |
| <i>in6pcb-err-ctloutput-nosopt</i> | (Optional) in6pcb control output no socket opt error |

Command Mode

- /exec

show sockets tcp keychain binding

```
show sockets tcp keychain binding [ __readonly__ { TABLE_keychain <keychain> <handle> <ref_count>
} ]
```

Syntax Description

| | |
|-----------------------|--|
| show | Show running system information |
| sockets | Display sockets status and configuration |
| tcp | TCP information |
| keychain | Keychain information |
| binding | Binding information regarding RPM |
| <i>__readonly__</i> | (Optional) |
| <i>TABLE_keychain</i> | (Optional) all sockets tcp keychains |
| <i>keychain</i> | (Optional) xml keychain information |
| <i>handle</i> | (Optional) xml handle information |
| <i>ref_count</i> | (Optional) xml refcount information |

Command Mode

- /exec

show spanning-tree

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] [ __readonly__ TABLE_tree <tree_id>
<tree_tree_type> <tree_protocol> <port_count> <bridge_mac> <bridge_priority> <tree_designated_root>
<tree_designated_root_priority> <stp_active> <root_path_cost> <root_port_if_index> <root_port_priority>
<root_port_number> <topology_change> <topology_change_detected> <topology_change_count>
<topology_change_time_since_last> <tc_initiator_if_index> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> <max_age> <hello_time> <forward_delay> <hold_time> <hello_timer>
<topology_change_timer> <tcn_timer> <aging_timer> <disabled> <blocking> <listening> <learning>
<forwarding> <invalid> TABLE_port <if_index> [ <vpc> ] <port_info_tree_id> <state> <role> <port_priority>
<port_number> <port_protocol> <port_tree_type> <path_cost> <port_designated_root>
<port_designated_root_priority> <designated_cost> <designated_bridge> <designated_bridge_priority>
<designated_port> <tc_acknowledge> <forward_transition_count> <self_looped> <inconsistency> <bpdu_in>
<bpdu_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p>
<oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ]
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> [ <boundary>
] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prestd> ] ] } | { show spanning-tree [ vlan <vlan-id> |
bridge-domain <bd-id> ] { <verbosity> | active } + [ __readonly__ TABLE_tree <tree_id> <tree_tree_type>
<tree_protocol> <port_count> <bridge_mac> <bridge_priority> <tree_designated_root>
<tree_designated_root_priority> <stp_active> <root_path_cost> <root_port_if_index> <root_port_priority>
<root_port_number> <topology_change> <topology_change_detected> <topology_change_count>
<topology_change_time_since_last> <tc_initiator_if_index> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> <max_age> <hello_time> <forward_delay> <hold_time> <hello_timer>
<topology_change_timer> <tcn_timer> <aging_timer> <disabled> <blocking> <listening> <learning>
<forwarding> <invalid> TABLE_port <if_index> <port_info_tree_id> <state> <role> <port_priority>
<port_number> <port_protocol> <port_tree_type> <path_cost> <port_designated_root>
<port_designated_root_priority> <designated_cost> <designated_bridge> <designated_bridge_priority>
<designated_port> <tc_acknowledge> <forward_transition_count> <self_looped> <inconsistency> <bpdu_in>
<bpdu_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p>
<oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ]
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> [ <boundary>
] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prestd> ] ] }
```

Syntax Description

| | |
|------------------|---|
| show | Show running system information |
| spanning-tree | Show spanning tree information |
| vlan | (Optional) VLAN Switch Spanning Trees |
| bridge-domain | (Optional) Bridge-Domain Switch Spanning Trees |
| <i>vlan-id</i> | (Optional) vlan range, Example: 1,3-5,7,9-11 |
| <i>bd-id</i> | (Optional) Bridge-Domain range, Example: 2,4-5,7,9-11 |
| <i>verbosity</i> | verbosity |
| active | Report on active interfaces only |
| __readonly__ | (Optional) Read Only |

| | |
|--|---|
| <i>TABLE_tree</i> | (Optional) |
| <i>tree_id</i> | (Optional) Tree Id |
| <i>tree_tree_type</i> | (Optional) Tree Type |
| <i>tree_protocol</i> | (Optional) Tree Protocol |
| <i>port_count</i> | (Optional) Number of Ports in Tree |
| <i>bridge_mac</i> | (Optional) Bridge Mac |
| <i>bridge_priority</i> | (Optional) Bridge Priority |
| <i>tree_designated_root</i> | (Optional) Designated Root Mac |
| <i>tree_designated_root_priority</i> | (Optional) Designated Root Priority |
| <i>stp_active</i> | (Optional) Spanning Tree State |
| <i>root_path_cost</i> | (Optional) Root Path Cost |
| <i>root_port_if_index</i> | (Optional) Root Port |
| <i>root_port_priority</i> | (Optional) Root Port Priority |
| <i>root_port_number</i> | (Optional) Root Port Number |
| <i>topology_change</i> | (Optional) Topology Change flag is set ? |
| <i>topology_change_detected</i> | (Optional) Topology Change detected flag is set ? |
| <i>topology_change_count</i> | (Optional) Topology Change Count |
| <i>topology_change_time_since_last</i> | (Optional) Time since last TC |
| <i>tc_initiator_if_index</i> | (Optional) Topology Change initiator port |
| <i>max_age</i> | (Optional) Max Age |
| <i>hello_time</i> | (Optional) Hello Time |
| <i>forward_delay</i> | (Optional) Forward delay |
| <i>bridge_max_age</i> | (Optional) Configured Bridge Max Age |
| <i>bridge_hello_time</i> | (Optional) Configured Hello Time |
| <i>bridge_forward_delay</i> | (Optional) Configured Forward Delay |
| <i>hold_time</i> | (Optional) Configured Hold Time |
| <i>hello_timer</i> | (Optional) Hello Timer Value |
| <i>topology_change_timer</i> | (Optional) Topology Change Timer Value |
| <i>tcn_timer</i> | (Optional) TCN Timer Value |

| | |
|--------------------------------------|--|
| <i>aging_timer</i> | (Optional) Ageing Timer Value |
| <i>disabled</i> | (Optional) Number of ports Disabled |
| <i>blocking</i> | (Optional) Number of ports Blocking |
| <i>listening</i> | (Optional) Number of ports Listening |
| <i>learning</i> | (Optional) Number of ports Learning |
| <i>forwarding</i> | (Optional) Number of ports Forwarding |
| <i>invalid</i> | (Optional) Number of ports Invalid |
| TABLE_port | (Optional) |
| <i>if_index</i> | (Optional) Interface |
| <i>vpc</i> | (Optional) STP Port memembr of MCT/VPC PO |
| <i>port_info_tree_id</i> | (Optional) Tree Id |
| <i>state</i> | (Optional) STP Port State |
| <i>role</i> | (Optional) STP Port Role |
| <i>port_priority</i> | (Optional) Port priority |
| <i>port_number</i> | (Optional) Port Number |
| <i>port_protocol</i> | (Optional) Tree Protocol |
| <i>port_tree_type</i> | (Optional) Tree Type |
| <i>path_cost</i> | (Optional) Cost configured on this port |
| <i>port_designated_root</i> | (Optional) Designated Root Mac |
| <i>port_designated_root_priority</i> | (Optional) Designated Root Priority |
| <i>designated_cost</i> | (Optional) Designated cost |
| <i>designated_bridge</i> | (Optional) Designated bridge mac |
| <i>designated_bridge_priority</i> | (Optional) Designated bridge priority |
| <i>designated_port</i> | (Optional) Designated Port Id |
| <i>tc_acknowledge</i> | (Optional) Is topology change acknowledge flag set ? |
| <i>forward_transition_count</i> | (Optional) Port transitions to Forwarding |
| <i>self_looped</i> | (Optional) Is Port self looped ? |
| <i>inconsistency</i> | (Optional) PVST+ Inconsistency Error Flags |
| <i>bpdus_in</i> | (Optional) BPDUs received on this stp port |

| | |
|----------------------------|---|
| <i>bpdu_out</i> | (Optional) BPDUs send on this stp port |
| <i>port_fast</i> | (Optional) Port Fast configured on port |
| <i>link_type</i> | (Optional) Link type configured on this port |
| <i>port_guard</i> | (Optional) Port Guard mode of port |
| <i>bpdu_guard</i> | (Optional) Bpdu Guard mode configured |
| <i>bpdu_filter</i> | (Optional) Bpdu Filter mode configured |
| <i>oper_portfast</i> | (Optional) Is portfast enabled ? |
| <i>oper_p2p</i> | (Optional) Is port P2P ? |
| <i>oper_loopguard</i> | (Optional) Is loopguard enabled ? |
| <i>oper_bpduguard</i> | (Optional) Is bpduguard enabled ? |
| <i>oper_bpdufilter</i> | (Optional) Is bpdufilter enabled ? |
| <i>int_bpdufilter</i> | (Optional) Is internal bpdufilter enabled ? |
| <i>forward_delay_timer</i> | (Optional) Forward Delay timer |
| <i>hold_timer</i> | (Optional) Hold Timer |
| <i>message_age</i> | (Optional) Message age timer |
| <i>peer</i> | (Optional) STP protocol of the peer |
| <i>dispute</i> | (Optional) Is port Disputed ? |
| <i>pvstsim_inc_timer</i> | (Optional) PVST Simulation Inconsistency Hold Timer |
| <i>boundary</i> | (Optional) Is port boundary ? |
| <i>prestd</i> | (Optional) Is port Pre STD MST ? |
| <i>simulate_pvst</i> | (Optional) Is port is pvst simulate mode ? |
| <i>oper_networkport</i> | (Optional) Is network port enabled ? |
| <i>simulate_pvst_cfg</i> | (Optional) PVST Simulation configured on port |

Command Mode

- /exec

show spanning-tree blockedports

```
{ show spanning-tree [ vlan <vlan-id> ] blockedports [ __readonly__ [ TABLE_tree [ <port_info_tree_id> ]
[ TABLE_port [ <if_index> ] ] ] [ <tree_type> ] [ <num_ports> ] ] }
```

Syntax Description

| | |
|--------------------------|--|
| show | Show running system information |
| spanning-tree | Show spanning tree information |
| vlan | (Optional) VLAN Switch Spanning Trees |
| __readonly__ | (Optional) |
| TABLE_tree | (Optional) |
| <i>port_info_tree_id</i> | (Optional) Tree name |
| TABLE_port | (Optional) |
| <i>if_index</i> | (Optional) Port name |
| <i>tree_type</i> | (Optional) Tree Type |
| <i>num_ports</i> | (Optional) Number of Ports |
| <i>vlan-id</i> | (Optional) vlan range, Example: 1,3-5,7,9-11 |
| blockedports | Show blocked ports |

Command Mode

- /exec

show spanning-tree bridge

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] bridge [ priority [ system-id ] ][ __readonly__
{ TABLE_tree <tree_id> <tree_tree_type> <tree_protocol> <bridge_mac> <bridge_priority>
<bridge_forward_delay> <bridge_max_age> <bridge_hello_time> } ] } | { show spanning-tree [ vlan <vlan-id>
| bridge-domain <bd-id> ] bridge [ { detail | brief } ][ __readonly__ { TABLE_tree <tree_id> <tree_tree_type>
<tree_protocol> <bridge_mac> <bridge_priority> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> } ] } | { show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] bridge [ { address
| forward-time | hello-time | id | max-age | protocol } ][ __readonly__ { TABLE_tree <tree_id> <tree_tree_type>
<tree_protocol> <bridge_mac> <bridge_priority> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> } ] }
```

Syntax Description

| | |
|-----------------------|---|
| show | Show running system information |
| spanning-tree | Show spanning tree information |
| vlan | (Optional) VLAN Switch Spanning Trees |
| bridge-domain | (Optional) Bridge-Domain Switch Spanning Trees |
| <i>vlan-id</i> | (Optional) vlan range, Example: 1,3-5,7,9-11 |
| <i>bd-id</i> | (Optional) Bridge-Domain range, Example: 2,4-5,7,9-11 |
| bridge | Status and configuration of this bridge |
| address | (Optional) Mac address of this bridge |
| forward-time | (Optional) Forward delay interval |
| hello-time | (Optional) Hello time |
| id | (Optional) Spanning tree bridge identifier |
| max-age | (Optional) Max age |
| protocol | (Optional) Spanning tree protocol |
| brief | (Optional) Brief summary of the status and configuration output |
| detail | (Optional) Detailed of the status and configuration |
| priority | (Optional) Bridge priority of this bridge |
| system-id | (Optional) Spanning tree priority with system id extension |
| __readonly__ | (Optional) Read Only |
| TABLE_tree | (Optional) |
| <i>tree_id</i> | (Optional) Tree Id |
| <i>tree_tree_type</i> | (Optional) Tree Type |

| | |
|-----------------------------|--------------------------------------|
| <i>tree_protocol</i> | (Optional) Tree Protocol |
| <i>bridge_mac</i> | (Optional) Bridge Mac |
| <i>bridge_priority</i> | (Optional) Bridge Priority |
| <i>bridge_forward_delay</i> | (Optional) Configured Forward Delay |
| <i>bridge_max_age</i> | (Optional) Configured Bridge Max Age |
| <i>bridge_hello_time</i> | (Optional) Configured Hello Time |

Command Mode

- /exec

show spanning-tree inconsistentports

```
{ show spanning-tree [ vlan <vlan-id> ] inconsistentports [ __readonly__ [ TABLE_tree <port_info_tree_id>
<if_index> <inconsistency> ] [ <tree_type> ] [ <num_ports> ] ] }
```

Syntax Description

| | |
|--------------------------|--|
| show | Show running system information |
| spanning-tree | Show spanning tree information |
| vlan | (Optional) VLAN Switch Spanning Trees |
| <i>vlan-id</i> | (Optional) vlan range, Example: 1,3-5,7,9-11 |
| inconsistentports | Show inconsistent ports |
| <i>__readonly__</i> | (Optional) |
| TABLE_tree | (Optional) |
| <i>port_info_tree_id</i> | (Optional) Tree name |
| <i>if_index</i> | (Optional) Port name |
| <i>inconsistency</i> | (Optional) Inconsistency type |
| <i>tree_type</i> | (Optional) Tree Type |
| <i>num_ports</i> | (Optional) Number of Ports |

Command Mode

- /exec

show spanning-tree interface

```
{ show spanning-tree [ vlan <vlan-id> ] interface <interface-id> { cost | inconsistency | edge | priority | rootcost | state } [ __readonly__ [ TABLE_vlan_interface_info <tree_name> [ <cost> ] [ <edge> ] [ <inconsistency> ] [ <priority> ] [ <rootcost> ] [ <state> ] ] ] }
```

Syntax Description

| | |
|---------------------------|--|
| show | Show running system information |
| spanning-tree | Show spanning tree information |
| vlan | (Optional) VLAN Switch Spanning Trees |
| <i>vlan-id</i> | (Optional) vlan range, Example: 1,3-5,7,9-11 |
| interface | Spanning Tree interface status and configuration |
| <i>interface-id</i> | |
| cost | Port path cost |
| inconsistency | Port inconsistency state |
| edge | Edge Port configuration |
| priority | Port priority |
| rootcost | Path cost to root |
| state | Port spanning tree state |
| __readonly__ | (Optional) |
| TABLE_vlan_interface_info | (Optional) |
| <i>tree_name</i> | (Optional) Spanning tree name |
| <i>cost</i> | (Optional) Path cost |
| <i>edge</i> | (Optional) Portfast enabled or not |
| <i>inconsistency</i> | (Optional) Port inconsistency |
| <i>priority</i> | (Optional) Port Priority |
| <i>rootcost</i> | (Optional) Designated Cost |
| <i>state</i> | (Optional) Port state |

Command Mode

- /exec

show spanning-tree interface

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] interface <interface-id> [ __readonly__ {
TABLE_port <if_index> [ <vpc> ] <port_info_tree_id> <state> <role> <port_priority> <port_number>
<port_protocol> <port_tree_type> <path_cost> <port_designated_root> <port_designated_root_priority>
<designated_cost> <designated_bridge> <designated_bridge_priority> <designated_port> <tc_acknowledge>
<forward_transition_count> <self_looped> <inconsistency> <bpdus_in> <bpdus_out> <port_fast> <link_type>
<port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p> <oper_loopguard> <oper_bpduguard>
<oper_bpdufilter> <int_bpdufilter> <oper_networkport> <forward_delay_timer> <hold_timer> <message_age>
<peer> <dispute> <pvstsim_inc_timer> [ <boundary> ] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prest>
] ] ] } | { show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] interface <interface-id> { <verbosity>
| active } + [ __readonly__ { TABLE_port <if_index> [ <vpc> ] <port_info_tree_id> <state> <role>
<port_priority> <port_number> <port_protocol> <port_tree_type> <path_cost> <port_designated_root>
<port_designated_root_priority> <designated_cost> <designated_bridge> <designated_bridge_priority>
<designated_port> <tc_acknowledge> <forward_transition_count> <self_looped> <inconsistency> <bpdus_in>
<bpdus_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p>
<oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> <oper_networkport>
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> [ <boundary>
] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prest> ] ] ] }
```

Syntax Description

| | |
|--------------------------|---|
| show | Show running system information |
| spanning-tree | Show spanning tree information |
| vlan | (Optional) VLAN Switch Spanning Trees |
| bridge-domain | (Optional) Bridge-Domain Switch Spanning Trees |
| <i>vlan-id</i> | (Optional) vlan range, Example: 1,3-5,7,9-11 |
| <i>bd-id</i> | (Optional) Bridge-Domain range, Example: 2,4-5,7,9-11 |
| interface | Spanning Tree interface status and configuration |
| <i>interface-id</i> | |
| <i>verbosity</i> | verbosity |
| active | Report on active instances only |
| <u>__readonly__</u> | (Optional) Read Only |
| TABLE_port | (Optional) |
| <i>if_index</i> | (Optional) Interface |
| <i>vpc</i> | (Optional) STP Port memembr of MCT/VPC PO |
| <i>port_info_tree_id</i> | (Optional) Tree Id |
| <i>state</i> | (Optional) STP Port State |

| | |
|--------------------------------------|--|
| <i>role</i> | (Optional) STP Port Role |
| <i>port_priority</i> | (Optional) Port priority |
| <i>port_number</i> | (Optional) Port Number |
| <i>port_protocol</i> | (Optional) Tree Protocol |
| <i>port_tree_type</i> | (Optional) Tree Type |
| <i>path_cost</i> | (Optional) Cost configured on this port |
| <i>port_designated_root</i> | (Optional) Designated Root Mac |
| <i>port_designated_root_priority</i> | (Optional) Designated Root Priority |
| <i>designated_cost</i> | (Optional) Designated cost |
| <i>designated_bridge</i> | (Optional) Designated bridge mac |
| <i>designated_bridge_priority</i> | (Optional) Designated bridge priority |
| <i>designated_port</i> | (Optional) Designated Port Id |
| <i>tc_acknowledge</i> | (Optional) Is topology change acknowledge flag set ? |
| <i>forward_transition_count</i> | (Optional) Port transitions to Forwarding |
| <i>self_looped</i> | (Optional) Is Port self looped ? |
| <i>inconsistency</i> | (Optional) PVST+ Inconsistency Error Flags |
| <i>bpdu_in</i> | (Optional) BPDUs received on this stp port |
| <i>bpdu_out</i> | (Optional) BPDUs send on this stp port |
| <i>port_fast</i> | (Optional) Port Fast configured on port |
| <i>link_type</i> | (Optional) Link type configured on this port |
| <i>port_guard</i> | (Optional) Port Guard mode of port |
| <i>bpdu_guard</i> | (Optional) Bpdu Guard mode configured |
| <i>bpdu_filter</i> | (Optional) Bpdu Filter mode configured |
| <i>oper_portfast</i> | (Optional) Is portfast enabled ? |
| <i>oper_p2p</i> | (Optional) Is port P2P ? |
| <i>oper_loopguard</i> | (Optional) Is loopguard enabled ? |
| <i>oper_bpduguard</i> | (Optional) Is bpduguard enabled ? |
| <i>oper_bpdufilter</i> | (Optional) Is bpdufilter enabled ? |
| <i>int_bpdufilter</i> | (Optional) Is internal bpdufilter enabled ? |

| | |
|----------------------------|---|
| <i>forward_delay_timer</i> | (Optional) Forward Delay timer |
| <i>hold_timer</i> | (Optional) Hold Timer |
| <i>message_age</i> | (Optional) Message age timer |
| <i>peer</i> | (Optional) STP protocol of the peer |
| <i>dispute</i> | (Optional) Is port Disputed ? |
| <i>pvstsim_inc_timer</i> | (Optional) PVST Simulation Inconsistency Hold Timer |
| <i>boundary</i> | (Optional) Is port boundary ? |
| <i>prestd</i> | (Optional) Is port Pre STD MST ? |
| <i>simulate_pvst</i> | (Optional) Is port is pvst simulate mode ? |
| <i>oper_networkport</i> | (Optional) Is network port enabled ? |
| <i>simulate_pvst_cfg</i> | (Optional) PVST Simulation configured on port |

Command Mode

- /exec

show spanning-tree issu-impact

```
show spanning-tree issu-impact [ __readonly__ [ TABLE_topology <tc_detected> <tc_name> <no_of_tc>
<time> <tc_string> ] [ TABLE_BA_ports <port_name> ] [ <criteria1> ] [ <criteria2> ] [
TABLE_non_edge_ports <port> <vlan> <role> <sts> <tree> <instance> ] [ <criteria3> ] ]
```

Syntax Description

| | |
|-----------------------------|--------------------------------------|
| show | Show running system information |
| spanning-tree | Show spanning tree information |
| issu-impact | Show whether STP meets ISSU criteria |
| <i>__readonly__</i> | (Optional) |
| <i>TABLE_topology</i> | (Optional) |
| <i>tc_detected</i> | (Optional) |
| <i>tc_name</i> | (Optional) |
| <i>no_of_tc</i> | (Optional) |
| <i>time</i> | (Optional) |
| <i>tc_string</i> | (Optional) |
| <i>TABLE_BA_ports</i> | (Optional) |
| <i>port_name</i> | (Optional) |
| <i>TABLE_non_edge_ports</i> | (Optional) |
| <i>port</i> | (Optional) |
| <i>vlan</i> | (Optional) |
| <i>role</i> | (Optional) |
| <i>sts</i> | (Optional) |
| <i>tree</i> | (Optional) |
| <i>instance</i> | (Optional) |
| <i>criteria1</i> | (Optional) |
| <i>criteria2</i> | (Optional) |
| <i>criteria3</i> | (Optional) |

Command Mode

- /exec

show spanning-tree mst

```
{ show spanning-tree mst [ <mst-id> ] [ __readonly__ TABLE_tree <tree_id> <tree_tree_type> <tree_protocol>
<port_count> <bridge_mac> <bridge_priority> <tree_designated_root> <tree_designated_root_priority>
<stp_active> <root_path_cost> <root_port_if_index> <root_port_priority> <root_port_number>
<topology_change> <topology_change_detected> <topology_change_count>
<topology_change_time_since_last> <tc_initiator_if_index> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> <max_age> <hello_time> <forward_delay> <hold_time> <hello_timer>
<topology_change_timer> <tcn_timer> <aging_timer> <disabled> <blocking> <listening> <learning>
<forwarding> <invalid> <ist-master-id-mac> <ist-master-prio> <ist-path-cost> <remaining-hops> <max-hops>
<txholdcount> <tree-vlan-map> TABLE_port <if_index> <port_info_tree_id> <state> <role> <port_priority>
<port_number> <port_protocol> <port_tree_type> <path_cost> <port_designated_root>
<port_designated_root_priority> <designated_cost> <designated_bridge> <designated_bridge_priority>
<designated_port> <tc_acknowledge> <forward_transition_count> <self_looped> <inconsistency> <bpdu_in>
<bpdu_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p>
<oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ]
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> <boundary>
[ <simulate_pvst_cfg> ] <simulate_pvst> <prest> [ <designated_ist_master> ] [
<designated_ist_master_priority> ] [ <designated_ist_cost> ] [ <vlan-map> ] ] } { show spanning-tree mst
[ <mst-id> ] detail [ __readonly__ TABLE_tree <tree_id> <tree_tree_type> <tree_protocol> <port_count>
<bridge_mac> <bridge_priority> <tree_designated_root> <tree_designated_root_priority> <stp_active>
<root_path_cost> <root_port_if_index> <root_port_priority> <root_port_number> <topology_change>
<topology_change_detected> <topology_change_count> <topology_change_time_since_last>
<tc_initiator_if_index> <bridge_forward_delay> <bridge_max_age> <bridge_hello_time> <max_age>
<hello_time> <forward_delay> <hold_time> <hello_timer> <topology_change_timer> <tcn_timer>
<aging_timer> <disabled> <blocking> <listening> <learning> <forwarding> <invalid> <ist-master-id-mac>
<ist-master-prio> <ist-path-cost> <remaining-hops> <max-hops> <txholdcount> <tree-vlan-map> TABLE_port
<if_index> <port_info_tree_id> <state> <role> <port_priority> <port_number> <port_protocol>
<port_tree_type> <path_cost> <port_designated_root> <port_designated_root_priority> <designated_cost>
<designated_bridge> <designated_bridge_priority> <designated_port> <tc_acknowledge>
<forward_transition_count> <self_looped> <inconsistency> <bpdu_in> <bpdu_out> <port_fast> <link_type>
<port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p> <oper_loopguard> <oper_bpduguard>
<oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ] <forward_delay_timer> <hold_timer>
<message_age> <peer> <dispute> <pvstsim_inc_timer> <boundary> [ <simulate_pvst_cfg> ] <simulate_pvst>
<prest> [ <designated_ist_master> ] [ <designated_ist_master_priority> ] [ <designated_ist_cost> ] [
<vlan-map> ] ] }
```

Syntax Description

| | |
|---------------------|---|
| show | Show running system information |
| spanning-tree | Show spanning tree information |
| mst | Multiple spanning trees |
| <i>mst-id</i> | (Optional) MST instance range, example: 0-3,5,7-9 |
| detail | Detailed information |
| <u>__readonly__</u> | (Optional) Read Only |
| TABLE_tree | (Optional) |

| | |
|--|---|
| <i>tree_id</i> | (Optional) Tree Id |
| <i>tree_tree_type</i> | (Optional) Tree Type |
| <i>tree_protocol</i> | (Optional) Tree Protocol |
| <i>port_count</i> | (Optional) Number of Ports in Tree |
| <i>bridge_mac</i> | (Optional) Bridge Mac |
| <i>bridge_priority</i> | (Optional) Bridge Priority |
| <i>tree_designated_root</i> | (Optional) Designated Root Mac |
| <i>tree_designated_root_priority</i> | (Optional) Designated Root Priority |
| <i>stp_active</i> | (Optional) Spanning Tree State |
| <i>root_path_cost</i> | (Optional) Root Path Cost |
| <i>root_port_if_index</i> | (Optional) Root Port |
| <i>root_port_priority</i> | (Optional) Root Port Priority |
| <i>root_port_number</i> | (Optional) Root Port Number |
| <i>topology_change</i> | (Optional) Topology Change flag is set ? |
| <i>topology_change_detected</i> | (Optional) Topology Change detected flag is set ? |
| <i>topology_change_count</i> | (Optional) Topology Change Count |
| <i>topology_change_time_since_last</i> | (Optional) Time since last TC |
| <i>tc_initiator_if_index</i> | (Optional) Topology Change initiator port |
| <i>max_age</i> | (Optional) Max Age |
| <i>hello_time</i> | (Optional) Hello Time |
| <i>forward_delay</i> | (Optional) Forward delay |
| <i>bridge_max_age</i> | (Optional) Configured Bridge Max Age |
| <i>bridge_hello_time</i> | (Optional) Configured Hello Time |
| <i>bridge_forward_delay</i> | (Optional) Configured Forward Delay |
| <i>hold_time</i> | (Optional) Configured Hold Time |
| <i>hello_timer</i> | (Optional) Hello Timer Value |
| <i>topology_change_timer</i> | (Optional) Topology Change Timer Value |
| <i>tcn_timer</i> | (Optional) TCN Timer Value |
| <i>aging_timer</i> | (Optional) Ageing Timer Value |

| | |
|--------------------------------------|---|
| <i>disabled</i> | (Optional) Number of ports Disabled |
| <i>blocking</i> | (Optional) Number of ports Blocking |
| <i>listening</i> | (Optional) Number of ports Listening |
| <i>learning</i> | (Optional) Number of ports Learning |
| <i>forwarding</i> | (Optional) Number of ports Forwarding |
| <i>invalid</i> | (Optional) Number of ports Invalid |
| <i>ist-master-id-mac</i> | (Optional) IST Master ID MAC address |
| <i>ist-master-prio</i> | (Optional) IST Master ID priority |
| <i>ist-path-cost</i> | (Optional) IST path cost |
| <i>remaining-hops</i> | (Optional) Remaining hops |
| <i>max-hops</i> | (Optional) Max Hops |
| <i>txholdcount</i> | (Optional) TX Hold count |
| <i>tree-vlan-map</i> | (Optional) Bitmap of vlans mapped to tree |
| TABLE_port | (Optional) |
| <i>if_index</i> | (Optional) Interface |
| <i>state</i> | (Optional) STP Port State |
| <i>role</i> | (Optional) STP Port Role |
| <i>port_priority</i> | (Optional) Port priority |
| <i>port_number</i> | (Optional) Port Number |
| <i>port_info_tree_id</i> | (Optional) Tree Id |
| <i>port_tree_type</i> | (Optional) Tree Type |
| <i>port_protocol</i> | (Optional) Tree Protocol |
| <i>path_cost</i> | (Optional) Cost configured on this port |
| <i>port_designated_root</i> | (Optional) Designated Root Mac |
| <i>port_designated_root_priority</i> | (Optional) Designated Root Priority |
| <i>designated_cost</i> | (Optional) Designated cost |
| <i>designated_bridge</i> | (Optional) Designated bridge mac |
| <i>designated_bridge_priority</i> | (Optional) Designated bridge priority |
| <i>designated_port</i> | (Optional) Designated Port Id |

| | |
|---------------------------------------|--|
| <i>tc_acknowledge</i> | (Optional) Is topology change acknowledge flag set ? |
| <i>forward_transition_count</i> | (Optional) Port transitions to Forwarding |
| <i>self_looped</i> | (Optional) Is Port self looped ? |
| <i>inconsistency</i> | (Optional) PVST+ Inconsistency Error Flags |
| <i>bpdus_in</i> | (Optional) BPDUs received on this stp port |
| <i>bpdus_out</i> | (Optional) BPDUs send on this stp port |
| <i>port_fast</i> | (Optional) Port Fast configured on port |
| <i>link_type</i> | (Optional) Link type configured on this port |
| <i>port_guard</i> | (Optional) Port Guard mode of port |
| <i>bpdu_guard</i> | (Optional) Bpdu Guard mode configured |
| <i>bpdu_filter</i> | (Optional) Bpdu Filter mode configured |
| <i>oper_portfast</i> | (Optional) Is portfast enabled ? |
| <i>oper_p2p</i> | (Optional) Is port P2P ? |
| <i>oper_loopguard</i> | (Optional) Is loopguard enabled ? |
| <i>oper_bpduguard</i> | (Optional) Is bpduguard enabled ? |
| <i>oper_bpdufilter</i> | (Optional) Is bpdufilter enabled ? |
| <i>int_bpdufilter</i> | (Optional) Is internal bpdufilter enabled ? |
| <i>forward_delay_timer</i> | (Optional) Forward Delay timer |
| <i>hold_timer</i> | (Optional) Hold Timer |
| <i>message_age</i> | (Optional) Message age timer |
| <i>peer</i> | (Optional) STP protocol of the peer |
| <i>boundary</i> | (Optional) Is port boundary ? |
| <i>simulate_pvst</i> | (Optional) Is port is pvst simulate mode ? |
| <i>dispute</i> | (Optional) Is port Disputed ? |
| <i>pvstsim_inc_timer</i> | (Optional) PVST Simulation Inconsistency Hold Timer |
| <i>prestd</i> | (Optional) Is port Pre STD MST ? |
| <i>designated_ist_master</i> | (Optional) Ist master mac |
| <i>designated_ist_master_priority</i> | (Optional) Ist master priority |
| <i>designated_ist_cost</i> | (Optional) Ist master path cost |

| | |
|--------------------------|---|
| <i>vlan-map</i> | (Optional) Bitmap of vlans mapped to port |
| <i>oper_networkport</i> | (Optional) Is network port enabled ? |
| <i>simulate_pvst_cfg</i> | (Optional) PVST Simulation configured on port |

Command Mode

- /exec

show spanning-tree mst configuration

```
{ show spanning-tree mst configuration [ __readonly__ <stp-mode> <name> <rev-id> { Instance_to_vlan_map
<mst_id> <vlan_bit_map> } [ <pvlan-sync> ] ] }
```

Syntax Description

| | |
|----------------------|--|
| show | Show running system information |
| spanning-tree | Show spanning tree information |
| mst | Multiple spanning trees |
| configuration | MST current region configuration |
| <i>__readonly__</i> | (Optional) Read Only |
| <i>stp-mode</i> | (Optional) Spanning Tree operating mode |
| <i>name</i> | (Optional) Configuration name |
| <i>rev-id</i> | (Optional) Configuration revision number |
| Instance_to_vlan_map | (Optional) Instance to vlan mapping Info |
| <i>mst_id</i> | (Optional) MST Instance ID |
| <i>vlan_bit_map</i> | (Optional) VLAN Bitmap |
| <i>pvlan-sync</i> | (Optional) pvlan synchronization |

Command Mode

- /exec

show spanning-tree mst configuration digest

```
{ show spanning-tree mst configuration digest [ __readonly__ <stp-mode> <name> <rev-id> <digest>
<prestd-digest> [ <pvlan-sync> ] ] }
```

Syntax Description

| | |
|----------------------|--|
| show | Show running system information |
| spanning-tree | Show spanning tree information |
| mst | Multiple spanning trees |
| configuration | MST current region configuration |
| digest | Display MST configuration digest |
| <i>__readonly__</i> | (Optional) Read Only |
| <i>stp-mode</i> | (Optional) Spanning Tree operating mode |
| <i>name</i> | (Optional) Configuration name |
| <i>rev-id</i> | (Optional) Configuration revision number |
| <i>digest</i> | (Optional) MST region configuration digest |
| <i>prestd-digest</i> | (Optional) MST region configuration pre-std digest |
| <i>pvlan-sync</i> | (Optional) pvlan synchronization |

Command Mode

- /exec

show spanning-tree mst interface

```
{ show spanning-tree mst [ <mst-id> ] interface <interface-id> [ __readonly__ TABLE_port <if_index>
<port_info_tree_id> <state> <role> <port_priority> <port_number> <port_protocol> <port_tree_type>
<path_cost> <port_designated_root> <port_designated_root_priority> <designated_cost> <designated_bridge>
<designated_bridge_priority> <designated_port> <tc_acknowledge> <forward_transition_count> <self_looped>
<inconsistency> <bpdus_in> <bpdus_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter>
<oper_portfast> <oper_p2p> <oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [
<oper_networkport> ] <forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> [
<pvstsim_inc_timer> ] <boundary> [ <simulate_pvst_cfg> ] <simulate_pvst> <prestd> [
<designated_ist_master> ] [ <designated_ist_master_priority> ] [ <designated_ist_cost> ] [ <vlan-map> ] ]
} | { show spanning-tree mst [ <mst-id> ] interface <interface-id> detail [ __readonly__ TABLE_port <if_index>
<port_info_tree_id> <state> <role> <port_priority> <port_number> <port_protocol> <port_tree_type>
<path_cost> <port_designated_root> <port_designated_root_priority> <designated_cost> <designated_bridge>
<designated_bridge_priority> <designated_port> <tc_acknowledge> <forward_transition_count> <self_looped>
<inconsistency> <bpdus_in> <bpdus_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter>
<oper_portfast> <oper_p2p> <oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [
<oper_networkport> ] <forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> [
<pvstsim_inc_timer> ] <boundary> [ <simulate_pvst_cfg> ] <simulate_pvst> <prestd> [
<designated_ist_master> ] [ <designated_ist_master_priority> ] [ <designated_ist_cost> ] [ <vlan-map> ] ]
}
```

Syntax Description

| | |
|--------------------------|---|
| show | Show running system information |
| spanning-tree | Show spanning tree information |
| mst | Multiple spanning trees |
| <i>mst-id</i> | (Optional) MST instance range, example: 0-3,5,7-9 |
| interface | Spanning Tree interface status and configuration |
| <i>interface-id</i> | Specify an interface as a target for the command |
| detail | Detailed information |
| __readonly__ | (Optional) Read Only |
| TABLE_port | (Optional) |
| <i>if_index</i> | (Optional) Interface |
| <i>port_info_tree_id</i> | (Optional) Tree Id |
| <i>state</i> | (Optional) STP Port State |
| <i>role</i> | (Optional) STP Port Role |
| <i>port_priority</i> | (Optional) Port priority |
| <i>port_number</i> | (Optional) Port Number |

| | |
|--------------------------------------|--|
| <i>port_tree_type</i> | (Optional) Tree Type |
| <i>port_protocol</i> | (Optional) Tree Protocol |
| <i>path_cost</i> | (Optional) Cost configured on this port |
| <i>port_designated_root</i> | (Optional) Designated Root Mac |
| <i>port_designated_root_priority</i> | (Optional) Designated Root Priority |
| <i>designated_cost</i> | (Optional) Designated cost |
| <i>designated_bridge</i> | (Optional) Designated bridge mac |
| <i>designated_bridge_priority</i> | (Optional) Designated bridge priority |
| <i>designated_port</i> | (Optional) Designated Port Id |
| <i>tc_acknowledge</i> | (Optional) Is topology change acknowledge flag set ? |
| <i>forward_transition_count</i> | (Optional) Port transitions to Forwarding |
| <i>self_looped</i> | (Optional) Is Port self looped ? |
| <i>inconsistency</i> | (Optional) PVST+ Inconsistency Error Flags |
| <i>bpdu_in</i> | (Optional) BPDUs received on this stp port |
| <i>bpdu_out</i> | (Optional) BPDUs send on this stp port |
| <i>port_fast</i> | (Optional) Port Fast configured on port |
| <i>link_type</i> | (Optional) Link type configured on this port |
| <i>port_guard</i> | (Optional) Port Guard mode of port |
| <i>bpdu_guard</i> | (Optional) Bpdu Guard mode configured |
| <i>bpdu_filter</i> | (Optional) Bpdu Filter mode configured |
| <i>oper_portfast</i> | (Optional) Is portfast enabled ? |
| <i>oper_p2p</i> | (Optional) Is port P2P ? |
| <i>oper_loopguard</i> | (Optional) Is loopguard enabled ? |
| <i>oper_bpduguard</i> | (Optional) Is bpduguard enabled ? |
| <i>oper_bpdufilter</i> | (Optional) Is bpdufilter enabled ? |
| <i>int_bpdufilter</i> | (Optional) Is internal bpdufilter enabled ? |
| <i>forward_delay_timer</i> | (Optional) Forward Delay timer |
| <i>hold_timer</i> | (Optional) Hold Timer |
| <i>message_age</i> | (Optional) Message age timer |

| | |
|---------------------------------------|---|
| <i>peer</i> | (Optional) STP protocol of the peer |
| <i>boundary</i> | (Optional) Is port boundary ? |
| <i>simulate_pvst</i> | (Optional) Is port is pvst simulate mode ? |
| <i>dispute</i> | (Optional) Is port Disputed ? |
| <i>prestd</i> | (Optional) Is port Pre STD MST ? |
| <i>designated_ist_master</i> | (Optional) Ist master mac |
| <i>designated_ist_master_priority</i> | (Optional) Ist master priority |
| <i>designated_ist_cost</i> | (Optional) Ist master path cost |
| <i>vlan-map</i> | (Optional) Bitmap of vlans mapped to port |
| <i>oper_networkport</i> | (Optional) Is network port enabled ? |
| <i>pvstsim_inc_timer</i> | (Optional) PVST Simulation Inconsistency Hold Timer |
| <i>simulate_pvst_cfg</i> | (Optional) PVST Simulation configured on port |

Command Mode

- /exec

show spanning-tree pathcost method

```
{ show spanning-tree pathcost method [ __readonly__ <stp-pathcost-method> [ <stp-operpathcost-method> ] ] }
```

Syntax Description

| | |
|--------------------------------|-------------------------------------|
| show | Show running system information |
| spanning-tree | Show spanning tree information |
| pathcost | Show Spanning pathcost options |
| method | Default pathcost calculation method |
| <i>__readonly__</i> | (Optional) |
| <i>stp-pathcost-method</i> | (Optional) STP Pathcost Method |
| <i>stp-operpathcost-method</i> | (Optional) STP Pathcost Method |

Command Mode

- /exec

show spanning-tree root

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] root [ priority [ system-id ] ] [ __readonly__
TABLE_tree <tree_id> <tree_tree_type> <tree_protocol> <tree_designated_root>
<tree_designated_root_priority> <root_path_cost> <root_port_if_index> <root_port_priority>
<root_port_number> <max_age> <hello_time> <forward_delay> ] } | { show spanning-tree [ vlan <vlan-id>
| bridge-domain <bd-id> ] root [ { address | cost | forward-time | hello-time | id | max-age | port } ] [
__readonly__ TABLE_tree <tree_id> <tree_tree_type> <tree_protocol> <tree_designated_root>
<tree_designated_root_priority> <root_path_cost> <root_port_if_index> <root_port_priority>
<root_port_number> <max_age> <hello_time> <forward_delay> ] } | { show spanning-tree [ vlan <vlan-id>
| bridge-domain <bd-id> ] root [ { detail | brief } ] [ __readonly__ TABLE_tree <tree_id> <tree_tree_type>
<tree_protocol> <tree_designated_root> <tree_designated_root_priority> <root_path_cost>
<root_port_if_index> <root_port_priority> <root_port_number> <max_age> <hello_time> <forward_delay>
] }
```

Syntax Description

| | |
|----------------|--|
| show | Show running system information |
| spanning-tree | Show spanning tree information |
| vlan | (Optional) VLAN Switch Spanning Trees |
| bridge-domain | (Optional) Bridge-Domain Switch Spanning Trees |
| <i>vlan-id</i> | (Optional) vlan range, Example: 1,3-5,7,9-11 |
| <i>bd-id</i> | (Optional) Bridge-Domain range, Example: 2,4-5,7,9-11 |
| root | Status and configuration of the root bridge |
| address | (Optional) Mac address of this bridge |
| cost | (Optional) Path cost from this bridge to the root |
| forward-time | (Optional) Forward delay interval |
| hello-time | (Optional) Hello time |
| id | (Optional) Spanning tree bridge identifier |
| max-age | (Optional) Max age |
| port | (Optional) Root port |
| brief | (Optional) Brief summary of interface information |
| detail | (Optional) Detailed information |
| priority | (Optional) Bridge priority of this bridge |
| system-id | (Optional) Spanning tree priority with system id extension |
| __readonly__ | (Optional) Read Only |

| | |
|--------------------------------------|-------------------------------------|
| TABLE_tree | (Optional) |
| <i>tree_id</i> | (Optional) Tree Id |
| <i>tree_tree_type</i> | (Optional) Tree Type |
| <i>tree_protocol</i> | (Optional) Tree Protocol |
| <i>tree_designated_root</i> | (Optional) Designated Root Mac |
| <i>tree_designated_root_priority</i> | (Optional) Designated Root Priority |
| <i>root_path_cost</i> | (Optional) Root Path Cost |
| <i>root_port_if_index</i> | (Optional) Root Port |
| <i>root_port_priority</i> | (Optional) Root Port Priority |
| <i>root_port_number</i> | (Optional) Root Port Number |
| <i>max_age</i> | (Optional) Max Age |
| <i>hello_time</i> | (Optional) Hello Time |
| <i>forward_delay</i> | (Optional) Forward delay |

Command Mode

- /exec

show spanning-tree summary

```
show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] summary [ __readonly__ <stp-mode> [
<stp_tree_root_info> <tree_type> <bridge_mac> <bridge_priority> <tree_designated_root>
<tree_designated_root_priority> ] + [ <stp_root_bmp_info> <stp_root_tree_type> <tree_root_bmp>
<stp_l2gstp_bmp_info> <stp_l2gstp_tree_type> [ <stp_l2gstp_bmp> ] ] <stp_global_info> <pcost_method>
<oper_pcost_method> <port_fast> <bpdu_guard> <bpdu_filter> <oper_loopguard> <bridge_assurance>
<networkport_default> <simulate_pvst> <max-hops> <peer_switch_cfg> <oper_peer_switch>
<stp_l2gstp_domain_id> <stp_lite> [ TABLE_tree <stp_tree_summary> <summary_tree_type> <disabled>
<blocking> <listening> <learning> <forwarding> <invalid> <port_count> ] [ <stp_summary_totals>
<total_tree_type> <disabled> <blocking> <listening> <learning> <forwarding> <invalid> <port_count> ] ]
```

Syntax Description

| | |
|--------------------------------------|---|
| show | Show running system information |
| spanning-tree | Show spanning tree information |
| vlan | (Optional) VLAN Switch Spanning Trees |
| bridge-domain | (Optional) Bridge-Domain Switch Spanning Trees |
| <i>vlan-id</i> | (Optional) vlan range, Example: 1,3-5,7,9-11 |
| <i>bd-id</i> | (Optional) Bridge-Domain range, Example: 2,4-5,7,9-11 |
| summary | Summary of port states |
| <i>__readonly__</i> | (Optional) Read Only |
| <i>stp-mode</i> | (Optional) Spanning Tree operating mode |
| <i>stp_tree_root_info</i> | (Optional) STP Tree Root info marker |
| <i>tree_type</i> | (Optional) Tree Type |
| <i>bridge_mac</i> | (Optional) Bridge Mac |
| <i>bridge_priority</i> | (Optional) Bridge Priority |
| <i>tree_designated_root</i> | (Optional) Designated Root Mac |
| <i>tree_designated_root_priority</i> | (Optional) Designated Root Priority |
| <i>stp_root_bmp_info</i> | (Optional) STP root bitmap info marker |
| <i>stp_root_tree_type</i> | (Optional) Tree Type |
| <i>tree_root_bmp</i> | (Optional) STP tree root bmp |
| <i>stp_l2gstp_bmp_info</i> | (Optional) L2 Gateway STP bitmap marker |
| <i>stp_l2gstp_tree_type</i> | (Optional) Tree Type |
| <i>stp_l2gstp_bmp</i> | (Optional) L2 Gateway STP bitmap |

| | |
|-----------------------------|---|
| <i>stp_global_info</i> | (Optional) STP global info marker |
| <i>pcost_method</i> | (Optional) STP pathcost method |
| <i>oper_pcost_method</i> | (Optional) STP oper pathcost method |
| <i>port_fast</i> | (Optional) Port Fast configured on port |
| <i>bpdu_guard</i> | (Optional) Bpdu Guard mode configured |
| <i>bpdu_filter</i> | (Optional) Bpdu Filter mode configured |
| <i>oper_loopguard</i> | (Optional) Is loopguard enabled ? |
| <i>bridge_assurance</i> | (Optional) Bridge Assurance |
| <i>networkport_default</i> | (Optional) Network Port default |
| <i>simulate_pvst</i> | (Optional) Is port is pvst simulate mode ? |
| <i>max-hops</i> | (Optional) Max Hops |
| <i>peer_switch_cfg</i> | (Optional) peer switch configuration status |
| <i>oper_peer_switch</i> | (Optional) peer switch operational status |
| <i>stp_l2gstp_domain_id</i> | (Optional) L2 Gateway STP Domain ID |
| <i>stp_lite</i> | (Optional) STP-Lite |
| TABLE_tree | (Optional) |
| <i>stp_tree_summary</i> | (Optional) STP Tree Summary |
| <i>summary_tree_type</i> | (Optional) Tree Type |
| <i>disabled</i> | (Optional) Number of ports Disabled |
| <i>blocking</i> | (Optional) Number of ports Blocking |
| <i>listening</i> | (Optional) Number of ports Listening |
| <i>learning</i> | (Optional) Number of ports Learning |
| <i>forwarding</i> | (Optional) Number of ports Forwarding |
| <i>invalid</i> | (Optional) Number of ports Invalid |
| <i>port_count</i> | (Optional) Number of Ports in Tree |
| <i>stp_summary_totals</i> | (Optional) Total num STP trees |
| <i>total_tree_type</i> | (Optional) Tree Type |
| <i>disabled</i> | (Optional) Number of ports Disabled |
| <i>blocking</i> | (Optional) Number of ports Blocking |

| | |
|-------------------|---------------------------------------|
| <i>listening</i> | (Optional) Number of ports Listening |
| <i>learning</i> | (Optional) Number of ports Learning |
| <i>forwarding</i> | (Optional) Number of ports Forwarding |
| <i>invalid</i> | (Optional) Number of ports Invalid |
| <i>port_count</i> | (Optional) Number of Ports in Tree |

Command Mode

- /exec

show spanning-tree summary totals

```
show spanning-tree summary totals [ __readonly__ <stp-mode> <stp_tree_root_info> <tree_type>
<bridge_mac> <bridge_priority> <tree_designated_root> <tree_designated_root_priority> <stp_root_bmp_info>
<stp_root_tree_type> <tree_root_bmp> <stp_l2gstp_bmp_info> <stp_l2gstp_tree_type> <stp_l2gstp_bmp>
<stp_global_info> <pcost_method> <oper_pcost_method> <port_fast> <bpdu_guard> <bpdu_filter>
<oper_loopguard> <bridge_assurance> <networkport_default> <simulate_pvst> <max-hops>
<peer_switch_cfg> <oper_peer_switch> <stp_l2gstp_domain_id> <stp_lite> <stp_summary_totals>
<total_tree_type> <disabled> <blocking> <listening> <learning> <forwarding> <invalid> <port_count> ]
```

Syntax Description

| | |
|--------------------------------------|---|
| show | Show running system information |
| spanning-tree | Show spanning tree information |
| summary | Summary of port states |
| totals | Only show totals |
| <i>__readonly__</i> | (Optional) Read Only |
| <i>stp-mode</i> | (Optional) Spanning Tree operating mode |
| <i>stp_tree_root_info</i> | (Optional) STP Tree Root info marker |
| <i>tree_type</i> | (Optional) Tree Type |
| <i>bridge_mac</i> | (Optional) Bridge Mac |
| <i>bridge_priority</i> | (Optional) Bridge Priority |
| <i>tree_designated_root</i> | (Optional) Designated Root Mac |
| <i>tree_designated_root_priority</i> | (Optional) Designated Root Priority |
| <i>stp_root_bmp_info</i> | (Optional) STP root bitmap info marker |
| <i>stp_root_tree_type</i> | (Optional) Tree Type |
| <i>tree_root_bmp</i> | (Optional) STP tree root bmp |
| <i>stp_l2gstp_bmp_info</i> | (Optional) L2 Gateway STP bitmap marker |
| <i>stp_l2gstp_tree_type</i> | (Optional) Tree Type |
| <i>stp_l2gstp_bmp</i> | (Optional) L2 Gateway STP bitmap |
| <i>stp_global_info</i> | (Optional) STP global info marker |
| <i>pcost_method</i> | (Optional) STP pathcost method |
| <i>oper_pcost_method</i> | (Optional) STP oper pathcost method |
| <i>port_fast</i> | (Optional) Port Fast configured on port |

| | |
|-----------------------------|---|
| <i>bpdu_guard</i> | (Optional) Bpdu Guard mode configured |
| <i>bpdu_filter</i> | (Optional) Bpdu Filter mode configured |
| <i>oper_loopguard</i> | (Optional) Is loopguard enabled ? |
| <i>bridge_assurance</i> | (Optional) Bridge Assurance |
| <i>networkport_default</i> | (Optional) Network Port default |
| <i>simulate_pvst</i> | (Optional) Is port is pvst simulate mode ? |
| <i>max-hops</i> | (Optional) Max Hops |
| <i>peer_switch_cfg</i> | (Optional) peer switch configuration status |
| <i>oper_peer_switch</i> | (Optional) peer switch operational status |
| <i>stp_l2gstp_domain_id</i> | (Optional) L2 Gateway STP Domain ID |
| <i>stp_lite</i> | (Optional) STP-Lite |
| <i>stp_summary_totals</i> | (Optional) Total num STP trees |
| <i>total_tree_type</i> | (Optional) Tree Type |
| <i>disabled</i> | (Optional) Number of ports Disabled |
| <i>blocking</i> | (Optional) Number of ports Blocking |
| <i>listening</i> | (Optional) Number of ports Listening |
| <i>learning</i> | (Optional) Number of ports Learning |
| <i>forwarding</i> | (Optional) Number of ports Forwarding |
| <i>invalid</i> | (Optional) Number of ports Invalid |
| <i>port_count</i> | (Optional) Number of Ports in Tree |

Command Mode

- /exec

show ssh key

```
show ssh key [ { dsa [ md5 ] | rsa [ md5 ] | [ md5 ] } ] [ __readonly__ { TABLE_sessions <key_type>
<key_time> <key_data> <key_bitcount> <key_fingerprint> } ]
```

Syntax Description

| | |
|------------------------|---|
| show | Show running system information |
| ssh | Show SSH information |
| key | Show ssh keys |
| dsa | (Optional) Show dsa ssh keys |
| rsa | (Optional) Show rsa ssh keys |
| md5 | (Optional) Show Fingerprint in MD5 Format |
| __readonly__ | (Optional) |
| TABLE_sessions | (Optional) ssh key |
| <i>key_type</i> | (Optional) keys type |
| <i>key_time</i> | (Optional) timestamp |
| <i>key_data</i> | (Optional) ssh key data |
| <i>key_bitcount</i> | (Optional) bitcount |
| <i>key_fingerprint</i> | (Optional) fingerprint |

Command Mode

- /exec

show ssh server

```
show ssh server [ __readonly__ { operation_status <o_status> } ]
```

Syntax Description

| | |
|-------------------------|---|
| show | Show running system information |
| ssh | Show SSH information |
| server | Show whether ssh server is enabled or not |
| <i>__readonly__</i> | (Optional) |
| <i>operation_status</i> | (Optional) run-time information about ssh |
| <i>o_status</i> | (Optional) operational status of ssh server |

Command Mode

- /exec

show startup-config

show startup-config

Syntax Description

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

Command Mode

- /exec

show startup-config aaa

show startup-config aaa

Syntax Description

| | |
|----------------|---------------------------------|
| show | show startup-cfg |
| startup-config | show startup system information |
| aaa | Display aaa configuration |

Command Mode

- /exec

show startup-config aclmgr

show startup-config aclmgr [all]

Syntax Description

| | |
|----------------|--|
| show | Show running system information |
| startup-config | Display the startup configuration |
| aclmgr | show startup config for aclmgr |
| all | (Optional) show startup config with defaults |

Command Mode

- /exec

show startup-config adjmgr

show startup-config adjmgr [all]

Syntax Description

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

Command Mode

- /exec

show startup-config amt

show startup-config amt [all]

Syntax Description

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

Command Mode

- /exec

show startup-config arp

show startup-config arp [all]

Syntax Description

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

Command Mode

- /exec

show startup-config bfd

show startup-config bfd [all]

Syntax Description

| | |
|----------------|--|
| show | Show system information |
| startup-config | Display the startup configuration |
| bfd | show startup config for bfd |
| all | (Optional) show startup config with defaults |

Command Mode

- /exec

show startup-config bgp

show startup-config bgp [all]

Syntax Description

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

Command Mode

- /exec

show startup-config bloggerd

show startup-config bloggerd [all]

Syntax Description

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

Command Mode

- /exec

show startup-config callhome

show startup-config callhome

Syntax Description

| | |
|----------------|---------------------------------|
| show | show startup-cfg |
| startup-config | show startup system information |
| callhome | Display callhome configuration |

Command Mode

- /exec

show startup-config catena

show startup-config catena

Syntax Description

| | |
|----------------|---------------------------------|
| show | show startup-cfg |
| startup-config | show startup system information |
| catena | catena instances |

Command Mode

- /exec

show startup-config cdp

show startup-config cdp [all]

Syntax Description

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

Command Mode

- /exec

show startup-config cert-enroll

show startup-config cert-enroll

Syntax Description

| | |
|----------------|------------------------------------|
| show | show startup-cfg |
| startup-config | show startup system information |
| cert-enroll | Display certificates configuration |

Command Mode

- /exec

show startup-config cfs

show startup-config cfs [all]

Syntax Description

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

Command Mode

- /exec

show startup-config config-profile

show startup-config config-profile [<all_conf_profile_name>]

Syntax Description

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

Command Mode

- /exec

show startup-config copp

show startup-config copp [all]

Syntax Description

| | |
|----------------|--|
| show | Show running system information |
| startup-config | System startup-config commands |
| copp | Control-Plane Policing |
| all | (Optional) show startup config with defaults |

Command Mode

- /exec

show startup-config diagnostic

show startup-config diagnostic [all]

Syntax Description

| | |
|----------------|---|
| show | Show running system information |
| startup-config | Contents of startup configuration |
| diagnostic | Diagnostic configuration |
| all | (Optional) Display running config with defaults |

Command Mode

- /exec

show startup-config dot1x

show startup-config dot1x

Syntax Description

| | |
|----------------|---------------------------------|
| show | show startup-cfg |
| startup-config | show startup system information |
| dot1x | Display dot1x configuration |

Command Mode

- /exec

show startup-config ecp

show startup-config ecp [all]

Syntax Description

| | |
|----------------|---|
| show | Show running system information |
| startup-config | Current startup configuration |
| ecp | ECP (Edge Control Protocol) |
| all | (Optional) Display startup config with defaults |

Command Mode

- /exec

show startup-config eem

show startup-config eem

Syntax Description

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

Command Mode

- /exec

show startup-config eigrp

show startup-config eigrp [all]

Syntax Description

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

Command Mode

- /exec

show startup-config eltm

show startup-config eltm

Syntax Description

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

Command Mode

- /exec

show startup-config evb

show startup-config evb [all]

Syntax Description

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

Command Mode

- /exec

show startup-config exclude

show startup-config exclude <feature-list> +

Syntax Description

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

Command Mode

- /exec

show startup-config expand-port-profile

show startup-config expand-port-profile

Syntax Description

| | |
|---------------------|---------------------------------|
| show | Show running system information |
| startup-config | System startup-config commands |
| expand-port-profile | Expand port profile |

Command Mode

- /exec

show startup-config fabric forwarding

show startup-config fabric forwarding [all]

Syntax Description

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

Command Mode

- /exec

show startup-config fabric multicast

show startup-config fabric multicast [all]

Syntax Description

| | |
|----------------|--|
| show | Show running system information |
| startup-config | Current startup configuration |
| fabric | Fabric |
| multicast | Multicast information |
| all | (Optional) Display running config with defaults clis |

Command Mode

- /exec

show startup-config hw_telemetry

show startup-config hw_telemetry [all]

Syntax Description

| | |
|----------------|--|
| startup-config | Current startup configuration |
| hw_telemetry | show startup config for hw_telemetry |
| all | (Optional) show running config with defaults |

Command Mode

- /exec

show startup-config icam

show startup-config icam

Syntax Description

| | |
|----------------|---------------------------------|
| show | show startup-cfg |
| startup-config | show startup system information |
| icam | icam services |

Command Mode

- /exec

show startup-config igmp

show startup-config igmp [all]

Syntax Description

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

Command Mode

- /exec

show startup-config imp

show startup-config imp [all]

Syntax Description

| | |
|----------------|--|
| show | Show running system information |
| startup-config | Current startup configuration |
| imp | Display imp information |
| all | (Optional) Display start config with defaults clis |

Command Mode

- /exec

show startup-config interface

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

Syntax Description

| | |
|---------------------|---|
| show | Show running system information |
| startup-config | Current startup 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 startup-config interface

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

Syntax Description

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

Command Mode

- /exec

show startup-config ip

show startup-config ip [all]

Syntax Description

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

Command Mode

- /exec

show startup-config ipqos

show startup-config ipqos [all]

Syntax Description

| | |
|----------------|--|
| show | Show running system information |
| startup-config | Display the startup configuration |
| all | (Optional) show startup config with defaults |

Command Mode

- /exec

show startup-config isis

show startup-config isis [all]

Syntax Description

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

Command Mode

- /exec

show startup-config l3vm

show startup-config l3vm [all]

Syntax Description

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

Command Mode

- /exec

show startup-config ldap

show startup-config ldap

Syntax Description

| | |
|----------------|---------------------------------|
| show | show startup-cfg |
| startup-config | show startup system information |
| ldap | Display ldap configuration |

Command Mode

- /exec

show startup-config license

show startup-config license [all]

Syntax Description

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

Command Mode

- /exec

show startup-config lisp

show startup-config lisp [all]

Syntax Description

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

Command Mode

- /exec

show startup-config lldp

```
show startup-config lldp [ all ]
```

Syntax Description

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

Command Mode

- /exec

show startup-config log

```
show startup-config { log | mdp-log } [ bootstrap ]
```

Syntax Description

| | |
|----------------|---|
| show | Show running system information |
| startup-config | Current startup configuration |
| mdp-log | Displays execution log of last used mdp ascii startup configuration |
| log | Displays execution log of last used ascii startup configuration |
| bootstrap | (Optional) Bootstrap config replay execution log |

Command Mode

- /exec

show startup-config macsec

show startup-config macsec

Syntax Description

| | |
|----------------|---------------------------------|
| show | Show running system information |
| startup-config | show startup system information |
| macsec | Show CTS information |

Command Mode

- /exec

show startup-config mmode

show startup-config mmode [all]

Syntax Description

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

Command Mode

- /exec

show startup-config monitor

show startup-config monitor

Syntax Description

| | |
|----------------|----------------------------------|
| show | Show running system information |
| startup-config | Current startup configuration |
| monitor | Configure Ethernet SPAN sessions |

Command Mode

- /exec

show startup-config mpls ldp

show startup-config mpls ldp [all]

Syntax Description

| | |
|----------------|---|
| show | Show running system information |
| startup-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 startup-config mpls static

show startup-config mpls static [all]

Syntax Description

| | |
|----------------|---|
| show | Show running system information |
| startup-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 startup-config mpls traffic-eng

show startup-config mpls traffic-eng [all]

Syntax Description

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

Command Mode

- /exec

show startup-config msdp

show startup-config msdp [all]

Syntax Description

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

Command Mode

- /exec

show startup-config nat

show startup-config nat [all]

Syntax Description

| | |
|----------------|--|
| show | Show system information |
| startup-config | Display the startup configuration |
| nat | show startup config for nat |
| all | (Optional) show startup config with defaults |

Command Mode

- /exec

show startup-config nbm

show startup-config nbm

Syntax Description

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

Command Mode

- /exec

show startup-config ngoam

show startup-config ngoam

Syntax Description

| | |
|----------------|---------------------------------|
| show | Show running system information |
| startup-config | Show startup system information |
| ngoam | ngoam configuration |

Command Mode

- /exec

show startup-config ntp

show startup-config ntp [all]

Syntax Description

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

Command Mode

- /exec

show startup-config nxsdk

show startup-config nxsdk [all]

Syntax Description

| | |
|----------------|---|
| show | Show running system information |
| startup-config | Display the startup configuration |
| nxsdk | NXOS SDK |
| all | (Optional) Display running config with defaults |

Command Mode

- /exec

show startup-config openflow

show startup-config openflow [all]

Syntax Description

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

Command Mode

- /exec

show startup-config ospf

show startup-config ospf [all]

Syntax Description

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

Command Mode

- /exec

show startup-config ospfv3

```
show startup-config ospfv3 [ all ]
```

Syntax Description

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

Command Mode

- /exec

show startup-config otv-isis

show startup-config otv-isis [all]

Syntax Description

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

Command Mode

- /exec

show startup-config otv

show startup-config otv [all]

Syntax Description

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

Command Mode

- /exec

show startup-config param-list

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

Syntax Description

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

Command Mode

- /exec

show startup-config pim

show startup-config pim [all]

Syntax Description

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

Command Mode

- /exec

show startup-config pim6

show startup-config pim6 [all]

Syntax Description

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

Command Mode

- /exec

show startup-config plb-services

show startup-config plb-services

Syntax Description

| | |
|----------------|---------------------------------|
| show | show startup-cfg |
| startup-config | show startup system information |
| plb-services | PLB services |

Command Mode

- /exec

show startup-config poe

show startup-config poe [all]

Syntax Description

| | |
|----------------|--|
| show | Show running system information |
| startup-config | Current saved configuration |
| poe | Power over Ethernet |
| all | (Optional) show startup config with defaults |

Command Mode

- /exec

show startup-config port-profile

show startup-config port-profile [<all_profile_name>]

Syntax Description

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

Command Mode

- /exec

show startup-config port-security

show startup-config port-security [all]

Syntax Description

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

Command Mode

- /exec

show startup-config ptp

show startup-config ptp [all]

Syntax Description

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

Command Mode

- /exec

show startup-config radius

show startup-config radius

Syntax Description

| | |
|----------------|---------------------------------|
| show | show startup-cfg |
| startup-config | show startup system information |
| radius | Display radius configuration |

Command Mode

- /exec

show startup-config rip

show startup-config rip [all]

Syntax Description

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

Command Mode

- /exec

show startup-config rpm

show startup-config rpm [all]

Syntax Description

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

Command Mode

- /exec

show startup-config rsvp

show startup-config rsvp

Syntax Description

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

Command Mode

- /exec

show startup-config security

show startup-config security

Syntax Description

| | |
|----------------|---------------------------------|
| show | show startup-cfg |
| startup-config | show startup system information |
| security | Display security configuration |

Command Mode

- /exec

show startup-config segment-routing

show startup-config segment-routing [all]

Syntax Description

| | |
|-----------------|---|
| show | Show running system information |
| startup-config | Show startup configuration |
| segment-routing | Display segment-routing startup configuration |
| all | (Optional) Show startup config with defaults |

Command Mode

- /exec

show startup-config services

show startup-config services

Syntax Description

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

Command Mode

- /exec

show startup-config sflow

show startup-config sflow [all]

Syntax Description

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

Command Mode

- /exec

show startup-config smart-channel

show startup-config smart-channel

Syntax Description

| | |
|----------------|---------------------------------|
| show | show startup-cfg |
| startup-config | show startup system information |
| smart-channel | smart-channel services |

Command Mode

- /exec

show startup-config snmp

show startup-config snmp [all]

Syntax Description

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

Command Mode

- /exec

show startup-config switch

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

Syntax Description

| | |
|------------------------|---|
| show | Show running system information |
| startup-config | System startup configuration |
| switch-profile | Show switch-profile information |
| include-switch-profile | Show startup and switch-profile configuration |

Command Mode

- /exec

show startup-config tacacs

show startup-config tacacs +

Syntax Description

| | |
|----------------|---------------------------------|
| show | show startup-cfg |
| startup-config | show startup system information |

Command Mode

- /exec

show startup-config telemetry

show startup-config telemetry [all]

Syntax Description

| | |
|----------------|--|
| show | show startup system configuration |
| startup-config | show startup system information |
| telemetry | Display telemetry configuration |
| all | (Optional) show running config with defaults |

Command Mode

- /exec

show startup-config track

show startup-config track

Syntax Description

| | |
|----------------|---------------------------------------|
| show | Show running system information |
| startup-config | Show the system startup configuration |
| track | Show the track startup configuration |

Command Mode

- /exec

show startup-config udd

show startup-config udd

Syntax Description

| | |
|----------------|---------------------------------|
| show | Show running system information |
| startup-config | Current startup configuration |
| udd | Show udd configuration |

Command Mode

- /exec

show startup-config vdc-all

show startup-config vdc-all

Syntax Description

| | |
|----------------|---------------------------------|
| show | Show running system information |
| startup-config | Current startup configuration |
| vdc-all | Display config from all VDC |

Command Mode

- /exec

show startup-config vdc

show startup-config vdc [all]

Syntax Description

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

Command Mode

- /exec

show startup-config virtual-service

show startup-config virtual-service

Syntax Description

| | |
|-----------------|---|
| show | Show running system information |
| startup-config | System startup-config commands |
| virtual-service | Show startup config for virtualization services |

Command Mode

- /exec

show startup-config vlan

show startup-config vlan <vlan-id>

Syntax Description

| | |
|----------------|---|
| show | Show running system information |
| startup-config | System startup-config commands |
| vlan | Vlan commands |
| <i>vlan-id</i> | VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |

Command Mode

- /exec

show startup-config vlan

show startup-config vlan

Syntax Description

| | |
|----------------|---------------------------------|
| show | Show running system information |
| startup-config | System startup-config commands |
| vlan | Vlan commands |

Command Mode

- /exec

show startup-config vpc

show startup-config vpc [all]

Syntax Description

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

Command Mode

- /exec

show startup-config vrf

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

Syntax Description

| | |
|---------------------|--|
| show | Show running system information |
| startup-config | Current startup 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 startup-config vrf default

show startup-config vrf default [all]

Syntax Description

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

Command Mode

- /exec

show startup-config vshd

show startup-config vshd

Syntax Description

| | |
|----------------|---------------------------------|
| show | Show startup system information |
| startup-config | Current startup configuration |
| vshd | Show startup config for vshd |

Command Mode

- /exec

show startup-config vtp

show startup-config vtp [all]

Syntax Description

| | |
|----------------|---|
| show | Show running system information |
| startup-config | System startup-config commands |
| vtp | Show startup configuration for VTP |
| all | (Optional) Show startup configuration for VTP with defaults |

Command Mode

- /exec

show summary

```
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 } ] ] } summary [ 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 |
| summary | Display summarized information of BGP state |
| 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 |

Command Mode

- /exec

show switch-profile

```
show switch-profile [ __readonly__ <profile_name> <cfg_rev> ]
```

Syntax Description

| | |
|---------------------|---------------------------------|
| show | Show running system information |
| switch-profile | Show switch-profiles |
| <i>__readonly__</i> | (Optional) |
| <i>profile_name</i> | (Optional) |
| <i>cfg_rev</i> | (Optional) |

Command Mode

- /exec

show switch-profile

```
show switch-profile [ <profile-name> ] { session-history | status commit } [ __readonly__ <prof-name>
TABLE_session <session_index> <start_usec> <start_time> <end_usec> <end_time> <revision_number>
<session_type> <session_subtype> <peer_triggered> <profile_status> <local_status> <local_error>
<peer_address> <peer_sync_status> <merge_flags> <remote_status> <remote_error> ]
```

Syntax Description

| | |
|-------------------------|-----------------------------------|
| show | Show running system information |
| switch-profile | Show switch-profile |
| session-history | Switch-profile session-history |
| <i>profile-name</i> | (Optional) switch-profile name |
| status | Switch-profile sync status |
| commit | Switch-profile last commit status |
| <i>__readonly__</i> | (Optional) |
| <i>prof-name</i> | (Optional) |
| TABLE_session | (Optional) |
| <i>session_index</i> | (Optional) |
| <i>start_usec</i> | (Optional) |
| <i>start_time</i> | (Optional) |
| <i>end_usec</i> | (Optional) |
| <i>end_time</i> | (Optional) |
| <i>revision_number</i> | (Optional) |
| <i>session_type</i> | (Optional) |
| <i>session_subtype</i> | (Optional) |
| <i>peer_triggered</i> | (Optional) |
| <i>profile_status</i> | (Optional) |
| <i>local_status</i> | (Optional) |
| <i>local_error</i> | (Optional) |
| <i>peer_address</i> | (Optional) |
| <i>peer_sync_status</i> | (Optional) |

| | |
|----------------------|------------|
| <i>merge_flags</i> | (Optional) |
| <i>remote_status</i> | (Optional) |
| <i>remote_error</i> | (Optional) |

Command Mode

- /exec

show switch-profile buffer

```
show switch-profile [ <profile-name> ] buffer [ __readonly__ <prof-name> <seq_no> <cmd> ]
```

Syntax Description

| | |
|---------------------|---------------------------------|
| show | Show running system information |
| switch-profile | Show switch-profile |
| buffer | buffered commands |
| <i>profile-name</i> | (Optional) switch-profile name |
| <i>__readonly__</i> | (Optional) |
| <i>prof-name</i> | (Optional) |
| <i>seq_no</i> | (Optional) |
| <i>cmd</i> | (Optional) |

Command Mode

- /exec

show switch-profile peer

```
show switch-profile [ <profile-name> ] peer [ <dest-ip> ] [ details ] [ __readonly__ <prof-name> <rev>
<peer_address> <peer_sync_status> <merge_flags> <remote_status> <remote_error> <cmd> ]
```

Syntax Description

| | |
|-------------------------|--|
| show | Show running system information |
| switch-profile | Show switch-profile |
| <i>profile-name</i> | (Optional) switch-profile name |
| peer | peer info |
| <i>dest-ip</i> | (Optional) IPv4 address (A.B.C.D) of destination |
| details | (Optional) information in detail |
| <i>__readonly__</i> | (Optional) |
| <i>prof-name</i> | (Optional) |
| <i>rev</i> | (Optional) |
| <i>peer_address</i> | (Optional) |
| <i>peer_sync_status</i> | (Optional) |
| <i>merge_flags</i> | (Optional) |
| <i>remote_status</i> | (Optional) |
| <i>remote_error</i> | (Optional) |
| <i>cmd</i> | (Optional) |

Command Mode

- /exec

show switch-profile status

```
show switch-profile [ <profile-name> ] status [ __readonly__ <prof-name> <start_usec> <start_time>
<end_usec> <end_time> <revision_number> <session_type> <session_subtype> <peer_triggered>
<profile_status> <local_status> <local_error> <peer_address> <peer_sync_status> <merge_flags>
<remote_status> <remote_error> ]
```

Syntax Description

| | |
|-------------------------|---------------------------------|
| show | Show running system information |
| switch-profile | Show switch-profile |
| status | Switch-profile sync status |
| <i>profile-name</i> | (Optional) switch-profile name |
| <i>__readonly__</i> | (Optional) |
| <i>prof-name</i> | (Optional) |
| <i>start_usec</i> | (Optional) |
| <i>start_time</i> | (Optional) |
| <i>end_usec</i> | (Optional) |
| <i>end_time</i> | (Optional) |
| <i>revision_number</i> | (Optional) |
| <i>session_type</i> | (Optional) |
| <i>session_subtype</i> | (Optional) |
| <i>peer_triggered</i> | (Optional) |
| <i>profile_status</i> | (Optional) |
| <i>local_status</i> | (Optional) |
| <i>local_error</i> | (Optional) |
| <i>peer_address</i> | (Optional) |
| <i>peer_sync_status</i> | (Optional) |
| <i>merge_flags</i> | (Optional) |
| <i>remote_status</i> | (Optional) |
| <i>remote_error</i> | (Optional) |

Command Mode

- /exec

show switch-scope controller

show switch-scope controller

Syntax Description

| | |
|--------------|---------------------------------|
| show | Show running system information |
| switch-scope | switch-scope |
| controller | Controller command |

Command Mode

- /exec

show switching-mode

show switching-mode [__readonly__ TABLE_switching_mode <switching-mode-desc>]

Syntax Description

| | |
|----------------------------|---|
| show | Show running system information |
| switching-mode | Show the operating switching mode |
| __readonly__ | (Optional) |
| TABLE_switching_mode | (Optional) the xml switching_mode configuration |
| <i>switching-mode-desc</i> | (Optional) switching mode description |

Command Mode

- /exec

show switching-mode fabric-speed

show switching-mode fabric-speed [*__readonly__* *TABLE_switching_mode* <*switching-mode-desc*>]

Syntax Description

| | |
|-----------------------------|--|
| show | Show running system information |
| switching-mode | Show the operating switching mode |
| <i>__readonly__</i> | (Optional) |
| <i>TABLE_switching_mode</i> | (Optional) the xml <i>switching_mode</i> configuration |
| <i>switching-mode-desc</i> | (Optional) switching mode description |
| fabric-speed | Show the fabric speed |

Command Mode

- /exec

show system auto-collect tech-support

show system auto-collect tech-support [__readonly__ <result>]

Syntax Description

| | |
|---------------|--|
| show | Show running system information |
| system | System management commands |
| auto-collect | Auto collection of information |
| tech-support | Collect tech-support in case of service causing supervisor reset |
| __readonly__ | (Optional) |
| <i>result</i> | (Optional) show tech collection enable status |

Command Mode

- /exec

show system clis event-history

```
show system [ internal ] clis event-history { nvdb | client | errors | parser | ha | cli | objstr | objstr-errors }
```

Syntax Description

| | |
|---------------|--------------------------------------|
| show | Display output |
| system | System-related show commands |
| internal | (Optional) Commands for internal use |
| clis | cli server |
| event-history | Event history logs for clis |
| nvdb | Log of NVDB and PSS events |
| client | Log of client interaction events |
| errors | Log of errors |
| parser | Log of parser events |
| ha | Log of ha events |
| cli | Log of command events |
| objstr | Log of Object Store events |
| objstr-errors | Log of Object Store error events |

Command Mode

- /exec

show system config reload-pending

show system config reload-pending [*__readonly__* { *TABLE_reload_pending* <*cmds_list*> }]

Syntax Description

| | |
|-----------------------------|---|
| show | Show running system information |
| system | System-related show commands |
| config | Config commands which require reload |
| reload-pending | Commands which require a reload |
| <i>__readonly__</i> | (Optional) |
| <i>TABLE_reload_pending</i> | (Optional) reload pending commands list |
| <i>cmds_list</i> | (Optional) <i>cmds_list</i> |

Command Mode

- /exec

show system cores

show system cores [__readonly__ { <content> }]

Syntax Description

| | |
|----------------|---------------------------------|
| show | Show running system information |
| system | System-related show commands |
| cores | Displays core transfer option |
| __readonly__ | (Optional) |
| <i>content</i> | (Optional) Core transfer option |

Command Mode

- /exec

show system error-id

```
show system error-id { list | <i0> } [ __readonly__ <errorid> <facility> <desc> ]
```

Syntax Description

| | |
|---------------------|---------------------------------------|
| show | Show running system information |
| system | System-related show commands |
| error-id | Show description about errors |
| list | Show description about all error IDs |
| <i>i0</i> | Show description about specific error |
| <i>__readonly__</i> | (Optional) |
| <i>errorid</i> | (Optional) |
| <i>facility</i> | (Optional) |
| <i>desc</i> | (Optional) |

Command Mode

- /exec

show system exception-info

```
show system exception-info [ __readonly__ { TABLE_exception { <second> <panic_data> <register_data>
<stack_pointer> <stack_depth> <stack_timestamp> <stacl_magic> <hdr_length> <stack_data> <pre_usec>
<pre_sec> <int_t> <reason> <service> <version> } } ]
```

Syntax Description

| | |
|------------------------|-------------------------------------|
| show | Show running system information |
| system | System-related show commands |
| exception-info | Show last exception log information |
| <i>__readonly__</i> | (Optional) |
| TABLE_exception | (Optional) |
| <i>second</i> | (Optional) Time of exception |
| <i>panic_data</i> | (Optional) Panic information dump |
| <i>register_data</i> | (Optional) CPU register dump |
| <i>stack_pointer</i> | (Optional) Current Stack-pointer |
| <i>stack_depth</i> | (Optional) Current Stack-depth |
| <i>stack_timestamp</i> | (Optional) Stack dump timestamp |
| <i>stacl_magic</i> | (Optional) Stack Magic |
| <i>hdr_length</i> | (Optional) Hdr length |
| <i>stack_data</i> | (Optional) Stack Dump |
| <i>pre_usec</i> | (Optional) |
| <i>pre_sec</i> | (Optional) |
| <i>int_t</i> | (Optional) |
| <i>reason</i> | (Optional) Reason |
| <i>service</i> | (Optional) Service |
| <i>version</i> | (Optional) Version |

Command Mode

- /exec

show system fast-reload stabilization-timer

```
show system fast-reload stabilization-timer [ __readonly__ { <timer_val> } ]
```

Syntax Description

| | |
|---------------------|--|
| show | Show running system information |
| system | System management commands |
| fast-reload | fast-reload software |
| stabilization-timer | Network stabilization time in seconds before fast-reload can be executed after the previous reload |
| __readonly__ | (Optional) Read Only |
| <i>timer_val</i> | (Optional) XML attribute for timer value |

Command Mode

- /exec

show system inband queuing statistics

```
show system inband queuing statistics [ __readonly__ { TABLE_sys_inband_queue_stats <inbandpktunmap>
<inbandpktbpdqueue> <inbandpktmapq0> <inbandpktmapq1> <klmpktmapbpdu> <klmpktmaparp>
<klmpktmapq0> <klmpktmapq1> <klmpktmapveobc> <queuename> [ TABLE_bpdu_stats { <pmrcvpkts>
<pmdroppkts> <pmcongested> <rcvbuf> <sndbuf> <ipmndrop> } ] [ TABLE_q_stats { <indexstat>
<ipmrcvpkts> <ipmdroppkts> <ipmcongested> <ircvbuf> <isndbuf> <ipmndrop> } ] ] ]
```

Syntax Description

| | |
|------------------------------|---|
| show | Show running system information |
| system | System-related show commands |
| inband | Inband Commands |
| queuing | Inband Queuing commands |
| statistics | Inband statistics |
| <i>__readonly__</i> | (Optional) |
| TABLE_sys_inband_queue_stats | (Optional) System Inband Statistics |
| <i>inbandpktunmap</i> | (Optional) Inband packets unmapped |
| <i>inbandpktbpdqueue</i> | (Optional) Inband packets mapped to bpdu |
| <i>inbandpktmapq0</i> | (Optional) Inband packets mapped to q0 |
| <i>inbandpktmapq1</i> | (Optional) Inband packets mapped to q1 |
| <i>klmpktmapbpdu</i> | (Optional) In KLM packets mapped to bpdu |
| <i>klmpktmaparp</i> | (Optional) In KLM packets mapped to arp |
| <i>klmpktmapq0</i> | (Optional) In KLM packets mapped to q0 |
| <i>klmpktmapq1</i> | (Optional) In KLM packets mapped to q1 |
| <i>klmpktmapveobc</i> | (Optional) In KLM packets mapped to veobc |
| <i>queuename</i> | (Optional) Inband queue name |
| TABLE_bpdu_stats | (Optional) BPDU Statistics |
| <i>pmrcvpkts</i> | (Optional) BPDU Receive Packets |
| <i>pmdroppkts</i> | (Optional) BPDU Drop Packets |
| <i>pmcongested</i> | (Optional) BPDU Congested |
| <i>rcvbuf</i> | (Optional) BPDU Receive Buffer |
| <i>sndbuf</i> | (Optional) BPDU Send Buffer |

| | |
|----------------------|----------------------------------|
| <i>pmnoproduct</i> | (Optional) BPDU No drop |
| TABLE_q_stats | (Optional) Queue Statistics |
| <i>indexstat</i> | (Optional) Queue Index |
| <i>ipmrecvpkts</i> | (Optional) Queue receive packets |
| <i>ipmdroppkts</i> | (Optional) Queue drop packets |
| <i>ipmcongested</i> | (Optional) Queue Congested |
| <i>ircvbuf</i> | (Optional) Queue receive buffer |
| <i>isndbuf</i> | (Optional) Queue send buffer |
| <i>ipmnooproduct</i> | (Optional) Queue no drop |

Command Mode

- /exec

show system inband queuing status

```
show system inband queuing status [ __readonly__ [ { TABLE_sys_inband_queue_status <pminbandweigh0>
<pminbandweigh1> <pminbandweigh2> } ] ]
```

Syntax Description

| | |
|--------------------------------------|--------------------------------------|
| show | Show running system information |
| system | System-related show commands |
| inband | Inband Commands |
| queuing | Inband Queuing commands |
| status | Selective Packet Discard Information |
| <i>__readonly__</i> | (Optional) |
| <i>TABLE_sys_inband_queue_status</i> | (Optional) System Inband Status |
| <i>pminbandweigh0</i> | (Optional) BPDU Weight |
| <i>pminbandweigh1</i> | (Optional) Q0 Weight |
| <i>pminbandweigh2</i> | (Optional) Q1 Weight |

Command Mode

- /exec

show system kgdb

show system kgdb

Syntax Description

| | |
|--------|------------------------------------|
| show | Show running system information |
| system | System-related show commands |
| kgdb | Displays state of kgdb_enable flag |

Command Mode

- /exec

show system login

```
show system login [ __readonly__ [ [ <acc_list> ] [ <attempts> ] ] [ <within> <block_for> <time> ] [ <fail_count> ] [ <switch_mode> ] ]
```

Syntax Description

| | |
|---------------------|---|
| show | Show running system information |
| system | System-related show commands |
| login | Display Secure Login Configurations and State |
| <i>__readonly__</i> | (Optional) |
| <i>acc_list</i> | (Optional) Appiled ACL's |
| <i>attempts</i> | (Optional) Number of login failures |
| <i>within</i> | (Optional) Number of login failures within time |
| <i>block_for</i> | (Optional) Login disabled for time |
| <i>time</i> | (Optional) Time remaining to re-enble login |
| <i>fail_count</i> | (Optional) Login failure count |
| <i>switch_mode</i> | (Optional) Mode of operation |

Command Mode

- /exec

show system login failures

```
show system login failures [ __readonly__ [ { TABLE_loginStats <username> <port> <remote_addr>
<app_name> <time> } ] ]
```

Syntax Description

| | |
|---------------------|--|
| show | Show running system information |
| system | System-related show commands |
| login | Secure Login |
| failures | Display Login failures in the current watch period |
| <i>__readonly__</i> | (Optional) |
| TABLE_loginStats | (Optional) |
| <i>username</i> | (Optional) User name |
| <i>port</i> | (Optional) Login port number |
| <i>remote_addr</i> | (Optional) Remote address |
| <i>app_name</i> | (Optional) Application name |
| <i>time</i> | (Optional) Login time |

Command Mode

- /exec

show system memory-thresholds

```
show system memory-thresholds [ __readonly__ <critical_mem_threshold> <severe_mem_threshold>
<minor_mem_threshold> ]
```

Syntax Description

| | |
|-------------------------------|---|
| show | Show running system information |
| <i>__readonly__</i> | (Optional) |
| <i>critical_mem_threshold</i> | (Optional) Critical System Memory Threshold |
| <i>severe_mem_threshold</i> | (Optional) Severe System Memory Threshold |
| <i>minor_mem_threshold</i> | (Optional) Minor System Memory Threshold |
| system | System management commands |
| memory-thresholds | Set memory thresholds on the card |

Command Mode

- /exec

show system mode

```
show system mode [ __readonly__ <system_mode> [ <timer_state> ] ]
```

Syntax Description

| | |
|---------------------|---------------------------------|
| show | Show running system information |
| system | System configuration commands |
| mode | Show system mode |
| <i>__readonly__</i> | (Optional) |
| <i>system_mode</i> | (Optional) system mode |
| <i>timer_state</i> | (Optional) timer state |

Command Mode

- /exec

show system pss shrink status

```
show system pss shrink status [ details ] [ __readonly__ { [ <summary> ] [ TABLE_per_vdc <vdc_id> [
TABLE_detail_events <service> <vdc> <event> ] ] [ TABLE_events <service> <vdc> <event> ] } ]
```

Syntax Description

| | |
|---------------------|--|
| show | Show running system information |
| system | System-related show commands |
| pss | Displays last pss shrink status |
| shrink | Displays last pss shrink status |
| status | Displays last pss shrink status |
| details | (Optional) Displays last pss shrink status details |
| <i>__readonly__</i> | (Optional) |
| <i>summary</i> | (Optional) PSS shrink summary |
| TABLE_per_vdc | (Optional) |
| <i>vdc_id</i> | (Optional) VDC id |
| TABLE_detail_events | (Optional) PSS shrink events |
| <i>service</i> | (Optional) Service name |
| <i>vdc</i> | (Optional) VDC number |
| <i>event</i> | (Optional) PSS evnets |
| TABLE_events | (Optional) PSS shrink events |
| <i>service</i> | (Optional) Service name |
| <i>vdc</i> | (Optional) VDC number |
| <i>event</i> | (Optional) PSS evnets |

Command Mode

- /exec

show system redundancy ha status

```
show system redundancy ha status [ __readonly__ { [ TABLE_ha_status <vdc_id> <this_sup_internal_state>
<other_sup_internal_state> ] } ]
```

Syntax Description

| | |
|---------------------------------|------------------------------------|
| show | Show running system information |
| system | System-related show commands |
| redundancy | redundancy status |
| ha | vdc redundancy status |
| status | all vdc redundancy status |
| <i>__readonly__</i> | (Optional) |
| <i>TABLE_ha_status</i> | (Optional) HA status for all vdc's |
| <i>vdc_id</i> | (Optional) vdc id |
| <i>this_sup_internal_state</i> | (Optional) This Supervisor State |
| <i>other_sup_internal_state</i> | (Optional) Remote Supervisor State |

Command Mode

- /exec

show system redundancy status

```
show system redundancy status [ __readonly__ { <rdn_mode_admin> <rdn_mode_oper> <this_sup>
<this_sup_rdn_state> <this_sup_sup_state> <this_sup_internal_state> [ <other_sup> ] [ <other_sup_rdn_state>
] [ <other_sup_sup_state> ] [ <other_sup_internal_state> ] } ]
```

Syntax Description

| | |
|---------------------------------|--|
| show | Show running system information |
| system | System-related show commands |
| redundancy | redundancy status |
| status | Current redundancy status |
| <i>__readonly__</i> | (Optional) readonly |
| <i>rdn_mode_admin</i> | (Optional) Redundancy Mode Admin |
| <i>rdn_mode_oper</i> | (Optional) Redundancy Mode Operational |
| <i>this_sup</i> | (Optional) This Supervisor |
| <i>this_sup_rdn_state</i> | (Optional) Redundancy State |
| <i>this_sup_sup_state</i> | (Optional) Supervisor State |
| <i>this_sup_internal_state</i> | (Optional) Supervisor State |
| <i>other_sup</i> | (Optional) Other Supervisor |
| <i>other_sup_sup_state</i> | (Optional) Supervisor State |
| <i>other_sup_rdn_state</i> | (Optional) Redundancy tate |
| <i>other_sup_internal_state</i> | (Optional) Supervisor State |

Command Mode

- /exec

show system reset-reason

```
show system reset-reason [ __readonly__ { TABLE_reason <slot> { TABLE_rr <time> <reason> <service>
<version> } } ]
```

Syntax Description

| | |
|----------------|---------------------------------|
| show | Show running system information |
| system | System-related show commands |
| reset-reason | Show last reset reason |
| __readonly__ | (Optional) |
| TABLE_reason | (Optional) Reset reason info |
| <i>slot</i> | (Optional) slot |
| TABLE_rr | (Optional) reset reason |
| <i>time</i> | (Optional) time |
| <i>reason</i> | (Optional) reset reason |
| <i>service</i> | (Optional) service name |
| <i>version</i> | (Optional) version |

Command Mode

- /exec

show system reset-reason

```
show system reset-reason <s0> <santa-cruz-range> [ __readonly__ { TABLE_xbarreason <slot> { TABLE_rr
<time> <reason> <service> <version> } } ]
```

Syntax Description

| | |
|-------------------------|-------------------------------------|
| show | Show running system information |
| system | System-related show commands |
| reset-reason | Show last reset reason |
| <i>s0</i> | Show xbar module reset reason |
| <i>santa-cruz-range</i> | please enter the xbar module number |
| <i>__readonly__</i> | (Optional) |
| TABLE_xbarreason | (Optional) Reset reason info |
| <i>slot</i> | (Optional) slot |
| TABLE_rr | (Optional) reset reason |
| <i>time</i> | (Optional) time |
| <i>reason</i> | (Optional) reset reason |
| <i>service</i> | (Optional) service name |
| <i>version</i> | (Optional) version |

Command Mode

- /exec

show system reset-reason module

```
show system reset-reason module <module> [ __readonly__ { TABLE_reason <slot> { TABLE_rr <time>
<reason> <service> <version> } } ]
```

Syntax Description

| | |
|---------------------|-----------------------------------|
| show | Show running system information |
| system | System-related show commands |
| reset-reason | Show last reset reason |
| module | Show per module reset-reason code |
| <i>module</i> | please enter module number |
| <i>__readonly__</i> | (Optional) |
| TABLE_reason | (Optional) Reset reason info |
| <i>slot</i> | (Optional) slot |
| TABLE_rr | (Optional) reset reason |
| <i>time</i> | (Optional) time |
| <i>reason</i> | (Optional) reset reason |
| <i>service</i> | (Optional) service name |
| <i>version</i> | (Optional) version |

Command Mode

- /exec

show system resources

show system resources <i0>

Syntax Description

| | |
|-----------|---------------------------------|
| show | Show running system information |
| system | System-related show commands |
| resources | Show system resources |
| <i>i0</i> | time interval in seconds |

Command Mode

- /exec

show system resources

```
show system resources [ __readonly__ { [ <load_avg_1min> ] [ <load_avg_5min> ] [ <load_avg_15min> ]
[ <processes_total> ] [ <processes_running> ] [ <cpu_state_user> ] [ <cpu_state_kernel> ] [ <cpu_state_idle>
] [ TABLE_cpu_usage <cpuid> <user> <kernel> <idle> ] [ <memory_usage_total> ] [ <memory_usage_used>
] [ <memory_usage_free> ] [ <current_memory_status> ] } ]
```

Syntax Description

| | |
|------------------------------|--------------------------------------|
| show | Show running system information |
| system | System-related show commands |
| resources | Show system resources |
| <i>__readonly__</i> | (Optional) |
| <i>TABLE_cpu_usage</i> | (Optional) All Cpu Usage Information |
| <i>load_avg_1min</i> | (Optional) Load Average 1 Min |
| <i>load_avg_5min</i> | (Optional) Load Average 5 Min |
| <i>load_avg_15min</i> | (Optional) Load Average 15 Min |
| <i>processes_total</i> | (Optional) Total processes |
| <i>processes_running</i> | (Optional) Running Processes |
| <i>cpu_state_user</i> | (Optional) CPU State User |
| <i>cpu_state_kernel</i> | (Optional) CPU State Kernel |
| <i>cpu_state_idle</i> | (Optional) CPU State Idle |
| <i>cpuid</i> | (Optional) CPU id |
| <i>user</i> | (Optional) user time |
| <i>kernel</i> | (Optional) kernel time |
| <i>idle</i> | (Optional) idle time |
| <i>memory_usage_total</i> | (Optional) Memory Usage Total |
| <i>memory_usage_used</i> | (Optional) Memory Usage Used |
| <i>memory_usage_free</i> | (Optional) Memory Usage Free |
| <i>current_memory_status</i> | (Optional) Current Memory Status |

Command Mode

- /exec

show system resources module

show system resources [*<i0>*] module *<module>*

Syntax Description

| | |
|---------------|--|
| show | Show running system information |
| system | System-related show commands |
| resources | Show system resources |
| <i>i0</i> | (Optional) time interval in seconds |
| module | Show system resources for specified module |
| <i>module</i> | module number |

Command Mode

- /exec

show system resources module all

```
show system resources [ <i0> ] module all [ __readonly__ { TABLE_cpuinfo <sts_msg1> <str1> <cpu_module>
<cpu_5sec> <cpu_1min> <cpu_5min> } { TABLE_meminfo <sts_msg2> <str2> <mem_module> <mem_total>
<mem_used> <mem_free> <mem_total> } ]
```

Syntax Description

| | |
|---------------------------|--|
| show | Show running system information |
| system | System-related show commands |
| resources | Show system resources |
| <i>i0</i> | (Optional) time interval in seconds |
| module | Show system resources for specified module |
| all | Show system resources for all modules |
| <code>__readonly__</code> | (Optional) |
| TABLE_cpuinfo | (Optional) |
| <i>sts_msg1</i> | (Optional) |
| <i>str1</i> | (Optional) |
| <i>cpu_module</i> | (Optional) |
| <i>cpu_5sec</i> | (Optional) |
| <i>cpu_1min</i> | (Optional) |
| <i>cpu_5min</i> | (Optional) |
| TABLE_meminfo | (Optional) |
| <i>sts_msg2</i> | (Optional) |
| <i>str2</i> | (Optional) |
| <i>mem_module</i> | (Optional) |
| <i>mem_total</i> | (Optional) |
| <i>mem_used</i> | (Optional) |
| <i>mem_free</i> | (Optional) |
| <i>mem_total</i> | (Optional) |

Command Mode

- /exec

show system routing mode

```
show system routing mode [ __readonly__ TABLE_system_routing_mode { [ <configured-sys-routing-mode>
] [ <applied-sys-routing-mode> ] [ <svi-hardware-flood-mode> ] [ <routing-perf-mode> ] [
<mrouting-perf-mode> ] } ]
```

Syntax Description

| | |
|------------------------------------|--|
| show | Show running system information |
| system | Show system information |
| routing | Show routing related information |
| mode | Show mode related information |
| __readonly__ | (Optional) |
| TABLE_system_routing_mode | (Optional) the xml system_routing_mode configuration |
| <i>configured-sys-routing-mode</i> | (Optional) Configured system routing mode description |
| <i>applied-sys-routing-mode</i> | (Optional) Applied system routing mode description |
| <i>svi-hardware-flood-mode</i> | (Optional) Configured SVI hardware flood mode description |
| <i>routing-perf-mode</i> | (Optional) Applied System Routing Performance Mode description |
| <i>mrouting-perf-mode</i> | (Optional) Applied System Mrouting Performance Mode |

Command Mode

- /exec

show system srg

show system srg

Syntax Description

| | |
|--------|---------------------------------|
| show | Show running system information |
| system | System-related show commands |
| srg | Displays the system SRG |

Command Mode

- /exec

show system standby manual-boot

```
show system standby manual-boot [ __readonly__ { <content> } ]
```

Syntax Description

| | |
|----------------|---|
| show | Show running system information |
| system | System-related show commands |
| standby | Displays system standby manual boot option |
| manual-boot | Displays system standby manual boot option |
| __readonly__ | (Optional) |
| <i>content</i> | (Optional) Displays system standby manual boot option |

Command Mode

- /exec

show system switch-mode

show system switch-mode [*__readonly__* <*op_mode*>]

Syntax Description

| | |
|---------------------|---|
| show | Show running system information |
| system | System-related show commands |
| switch-mode | Show current operational mode of the switch |
| <i>__readonly__</i> | (Optional) |
| <i>op_mode</i> | (Optional) Operational Mode |

Command Mode

- /exec

show system switchover impact

```
show system switchover impact [ <uri0> [ <uri1> ] ]
```

Syntax Description

| | |
|-------------|--|
| show | Show running system information |
| system | System-related show commands |
| switchover | Show the software switchover impact between two images |
| impact | impact {standby_system_uri} {active_system_uri} |
| <i>uri0</i> | (Optional) Enter standby URI |
| <i>uri1</i> | (Optional) Enter active URI |

Command Mode

- /exec

show system uptime

```
show system uptime [ __readonly__ { <sys_st_time> <sys_up_days> <sys_up_hrs> <sys_up_mins>
<sys_up_secs> <kn_up_days> <kn_up_hrs> <kn_up_mins> <kn_up_secs> [ <as_up_days> ] [ <as_up_hrs>
] [ <as_up_mins> ] [ <as_up_secs> ] } ]
```

Syntax Description

| | |
|---------------------|--|
| show | Show running system information |
| system | System-related show commands |
| uptime | Show how long the system has been up and running |
| <i>__readonly__</i> | (Optional) readonly |
| <i>sys_st_time</i> | (Optional) System Start Time |
| <i>sys_up_days</i> | (Optional) System Uptime Days |
| <i>sys_up_hrs</i> | (Optional) System Uptime Hours |
| <i>sys_up_mins</i> | (Optional) System Uptime Minutes |
| <i>sys_up_secs</i> | (Optional) System Uptime Seconds |
| <i>kn_up_days</i> | (Optional) Kernel Uptime Days |
| <i>kn_up_hrs</i> | (Optional) Kernel Uptime Hours |
| <i>kn_up_mins</i> | (Optional) Kernel Uptime Minutes |
| <i>kn_up_secs</i> | (Optional) Kernel Uptime Seconds |
| <i>as_up_days</i> | (Optional) Active Sup Uptime Days |
| <i>as_up_hrs</i> | (Optional) Active Sup Uptime Hours |
| <i>as_up_mins</i> | (Optional) Active Sup Uptime Minutes |
| <i>as_up_secs</i> | (Optional) Active Sup Uptime Seconds |

Command Mode

- /exec

show system verify bios flash

```
show system verify bios { flash <i0> [ module <module> ] | protection <i1> [ module <module1> ] } [
__readonly__ { <return> <verify_result> <protection_status> } ]
```

Syntax Description

| | |
|--------------------------|--|
| show | Show running system information |
| system | System-related show commands |
| verify | Verify commands |
| bios | Verify bios |
| flash | verify bios flash or protection status |
| <i>i0</i> | Select primary or alternate flash |
| module | (Optional) Module number |
| <i>module</i> | (Optional) Enter module number |
| protection | verify bios flash or protection status |
| <i>i1</i> | Select primary or alternate flash |
| module | (Optional) Module number |
| <i>module1</i> | (Optional) Enter module number |
| <i>__readonly__</i> | (Optional) |
| <i>return</i> | (Optional) |
| <i>verify_result</i> | (Optional) |
| <i>protection_status</i> | (Optional) |

Command Mode

- /exec

show system vlan reserved

```
show system vlan reserved [ __readonly__ { TABLE_vlan <current_reserved_vlan_start>
<current_reserved_vlan_end> [ <future_reserved_vlan_start> ] [ <future_reserved_vlan_end> ] } ]
```

Syntax Description

| | |
|------------------------------------|---|
| show | Show running system information |
| system | system wide configuration |
| vlan | VLAN status |
| reserved | Show system VLAN allocation |
| <i>__readonly__</i> | (Optional) Read Only |
| <i>TABLE_vlan</i> | (Optional) |
| <i>current_reserved_vlan_start</i> | (Optional) System current running reserved vlan start |
| <i>current_reserved_vlan_end</i> | (Optional) System current running reserved vlan end |
| <i>future_reserved_vlan_start</i> | (Optional) System future running reserved vlan start |
| <i>future_reserved_vlan_end</i> | (Optional) System future running reserved vlan end |

Command Mode

- /exec